

# Theodore Garcia

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## EDUCATION

### De La Salle University

*Bachelor of Science in Computer Science, major in Network and Information Security*

Manila, Philippines  
2024 – 2028 (expected)

- Dean's Lister, Terms 1–6 (every term to date)
- DOST Merit Scholar, Department of Science and Technology undergraduate scholarship

### Elizabeth Seton School

*Senior High School, Science, Technology, Engineering and Mathematics (STEM) strand*

Las Piñas City, Philippines

- Ranked in the top 20% of the STEM batch; Excellence Award (With Honors) and Annual Excellence Award (With Honors)

## CERTIFICATIONS

**Certified:** ISC2 Certified in Cybersecurity (CC); AWS Certified Cloud Practitioner; AWS Certified AI Practitioner

**Skill badges:** IBM SkillsBuild: GRC and Data Privacy; Vulnerability Management; System and Network Security; Cloud Security

**Working toward:** CompTIA Security+; AWS Certified Security Specialty; ISO/IEC 27001 Lead Auditor or Lead Implementer (PECB); ISACA CISA or CRISC

## PROJECTS

### DarkHole V2 Penetration Test

*Vulnerability Assessment and Penetration Testing (Nmap, Nessus, Burp Suite, sqlmap)*

Team project  
Jul – Aug 2026

- Performed a black-box internal test of a Linux host and its PHP web application under a defined scope and rules of engagement.
- Validated scanner output by hand and chained five weaknesses (exposed .git repository, hardcoded credentials, SQL injection, cron command injection, password reuse with sudo) into full root access.
- Co-authored a 39-page findings report: 13 findings (2 Critical, 5 High) with CVSS 3.1 vectors and prioritized remediation.

### AuditBridge, Compliance Mapping and Risk Register Engine

*Python*

Personal project  
In progress

- Collects findings from CIS configuration checks, Nmap service scans and read-only web checks in a lab, with severity and evidence.
- Maps each finding to ISO/IEC 27001, NIST SP 800-53, PCI DSS, SOC 2, OWASP and CIS controls, with the rationale documented.
- Scores risk on an explainable 5×5 likelihood and impact scale; exports risk registers (CSV/XLSX), compliance report cards and an HTML heat map.

### Project Sinag, Filipino Sunshine Powerhouse Realty

*TypeScript, Node.js, Express, MySQL, React, Tailwind CSS*

Client project  
Oct 2026 – present

- Building, with a seven-person Scrum team, a web app replacing a brokerage's Excel files: listings, inquiries, viewings, referrals, commissions.
- Set up the architecture, MySQL migrations, CI (111 API tests per pull request) and the Scrum process; wrote the log-in, role checks, audit log, event bus and consent modules.
- Security: bcrypt; HttpOnly, SameSite, HTTPS-only session cookies with a 30-minute idle timeout and a new ID at log-in; a logout after 5 failures that treats unknown e-mails the same, so no response reveals which accounts exist.
- Data Privacy Act (RA 10173): versioned privacy notices, consent saved in the same transaction as each form, anonymizing withdrawal, and e-mails kept only as SHA-256 fingerprints in events and audit logs.

### Galicious Secret Scanner

*Python, Flask, SARIF 2.1.0*

Team project

- Co-developed a scanner that finds leaked credentials in folders and GitHub repositories, including secrets deleted from the latest commit but still in Git history.
- Combines regex signatures with a Shannon-entropy check and an opt-in validity test against AWS STS, GitHub, Stripe and Slack; every output is redacted.
- Tested against VulnRepo, a purpose-built repository with history-only secrets and decoys that must not be flagged.

### PinoyFlex

*React, Vite, Node.js, Express, MongoDB Atlas*

Team project  
2026

- Full-stack fitness community app built by a five-person team: posts, comments, follows, workout logs, badges, notifications and user reports with admin moderation; deployed on Render.
- Security: bcrypt password hashing; httpOnly, SameSite and production-only Secure session cookies; role-based access control with suspended accounts; rate limiting on login and the API; generic login errors that don't reveal which usernames exist.

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Pablings Payroll</b><br><i>Electron, SheetJS</i> <ul style="list-style-type: none"> <li>Built a local-first Windows payroll app for a working barbershop that turns the weekly Google Sheet export into commissions, allowances, late deductions and net pay, then exports payslips in the shop's layout.</li> <li>Kept employee pay data on the owner's machine, with no cloud service and no database.</li> </ul> | Client project                             |
| <b>Prompt-a-thon Practice App</b><br><i>Node.js, Express, Claude API</i> <ul style="list-style-type: none"> <li>Built a starter app for the LSCS Prompt-a-thon that streams Claude API replies to a chat UI with a live-editable system prompt.</li> <li>Added a mock mode that runs without an API key, and kept keys in an ignored .env file.</li> </ul>                                                             | Personal project                           |
| <b>VoIP over SIP/RTP</b><br><i>Java, UDP</i> <ul style="list-style-type: none"> <li>Built a Java voice-call client: SIP/SDP signaling over UDP, RTP audio and RTCP sender reports every 5 seconds.</li> <li>Supported file, one-way and two-way call modes with clean teardown between calls.</li> </ul>                                                                                                               | Course project                             |
| <b>CatBot</b><br><i>Python, reinforcement learning</i> <ul style="list-style-type: none"> <li>Built a tabular Q-learning agent that catches cats with different movement styles on an 8×8 grid, evaluated over 20 games against 5 graded cats plus unseen behaviors.</li> </ul>                                                                                                                                        | Course project                             |
| <b>UiPath Automation</b><br><i>Robotic process automation, UiPath Studio</i> <ul style="list-style-type: none"> <li>Built an automation workflow in UiPath Studio, with a recorded demo of it running.</li> </ul>                                                                                                                                                                                                      | Personal project                           |
| <b>COMPETITIONS AND WRITEUPS</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                            |
| <b>K17 CTF 2026, UNSW Security Society</b><br><i>Team SlayTheFlagII: 152nd of 682 teams (top 23%)</i> <ul style="list-style-type: none"> <li>Solved cryptography, digital forensics, reverse engineering, web exploitation, OSINT and miscellaneous challenges.</li> </ul>                                                                                                                                             | Online<br>Sep 2026                         |
| <b>ISO 2026 CTF: Uncharted Knowledge, Information Security Organization, DLSU</b><br><i>2nd place</i> <ul style="list-style-type: none"> <li>Solved cryptography, OS and Linux, digital forensics, web, metadata analysis, OSINT and steganography challenges.</li> </ul>                                                                                                                                              | Manila, Philippines<br>2026                |
| <b>Packet Capture CTF</b><br><i>16 step-by-step writeups: OSINT, web exploitation, digital and network forensics, steganography (github.com/theoithinkk/CTFwriteups)</i>                                                                                                                                                                                                                                               |                                            |
| <b>LEADERSHIP EXPERIENCE</b>                                                                                                                                                                                                                                                                                                                                                                                           |                                            |
| <b>La Salle Computer Society</b><br><i>Associate Vice President for Academics</i> <ul style="list-style-type: none"> <li>Directed pre-event operations for 10+ academic events: technical talks, exam reviews, publications and coding competitions.</li> <li>Coordinated scheduling, documentation and stakeholder communication with faculty and partner departments.</li> </ul>                                     | Manila, Philippines<br>Sep 2025 – Sep 2026 |
| <i>Junior Officer, Research and Development</i> <ul style="list-style-type: none"> <li>Helped plan and run the Research and Development committee's events.</li> </ul>                                                                                                                                                                                                                                                 | Oct 2024 – Sep 2025                        |
| <b>DLSU SPRINT</b><br><i>Associate Vice President for Human Resource Development</i> <ul style="list-style-type: none"> <li>Led member engagement for 30+ members of an invite-only leadership organization through 3+ team-building and development initiatives.</li> </ul>                                                                                                                                           | Manila, Philippines<br>Sep 2025 – Sep 2026 |
| <b>Computer Studies Government, De La Salle University</b><br><i>Executive for Internal Relations</i> <ul style="list-style-type: none"> <li>Point of contact between the student government, 10+ student organizations and the Dean's Office; ran internal communications.</li> </ul>                                                                                                                                 | Manila, Philippines<br>Sep 2024 – Oct 2025 |
| <b>DLSU ACM Student Chapter</b><br><i>Associate for Activities</i> <ul style="list-style-type: none"> <li>Ran the chapter's general assemblies and lab orientations for members.</li> </ul>                                                                                                                                                                                                                            | Manila, Philippines<br>Oct 2024 – Oct 2025 |
| <b>RESEARCH</b>                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |
| <b>Senior high research:</b> Outstanding Research Award, Elizabeth Seton School; oral presenter, PAREF Southridge Research Congress                                                                                                                                                                                                                                                                                    |                                            |
| <b>SKILLS</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |
| <b>GRC and privacy:</b> ISO/IEC 27001, NIST SP 800-53, CIS Benchmarks, PCI DSS, SOC 2, RA 10173 (Data Privacy Act), 5×5 risk scoring, risk registers, control mapping, policy and SOP drafting                                                                                                                                                                                                                         |                                            |
| <b>Cloud and AI:</b> AWS core services, AWS IAM, shared responsibility model, GitHub Actions, Claude API                                                                                                                                                                                                                                                                                                               |                                            |
| <b>Offensive security:</b> Burp Suite, Nmap (NSE), Nessus, sqlmap, Nikto, Kali Linux, OWASP Top 10, CVSS 3.1                                                                                                                                                                                                                                                                                                           |                                            |
| <b>Languages:</b> Python, JavaScript, Java, C, SQL, PHP, Rust, Bash, HTML, CSS                                                                                                                                                                                                                                                                                                                                         |                                            |
| <b>Tools and frameworks:</b> Linux, Git, GitHub, Flask, Node.js, Express, Electron, Google Apps Script, Microsoft 365, Excel                                                                                                                                                                                                                                                                                           |                                            |