

Emil De Guzman

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Skills

Languages & Backend: Python (Pandas, NumPy), Go, Java, R, Bash, Git, Docker, Linux

Cloud & Infrastructure: AWS (IAM, S3, EC2, KMS, GuardDuty), HashiCorp Vault/Consul/Nomad, Terraform, Databricks, Datadog, OpenTelemetry, PagerDuty

AI & Security Tooling: Anthropic API, AWS Bedrock, Model Context Protocol (MCP), Claude Code, LLM Observability, Playwright, Selenium, TruffleHog, Gitleaks, SOC 2, SIEM

Employment

Voltus, Security Engineering Intern 2026

- Built log and cost infrastructure for an internal AI agent platform (Anthropic API + MCP) used by **~250 employees**, including an S3 archival pipeline and a cost-attribution system that surfaced **~\$612/week** of previously unattributed spend
- Built a Datadog security monitor stack (**7 severity-tiered detectors**, MCP server allowlisting, PII log redaction) using Terraform and Slack alerting
- Designed and shipped a Go access-governance service automating manual provisioning (previously **~3 hrs of engineer time**, up to **23-day turnaround**); identified a privilege-escalation risk in the initial design and replaced it with a PR-gated approval flow using ephemeral Vault-issued credentials
- Built and deployed a TypeScript VS Code extension, auto-installed in every **Codespace**, improving visibility into internal Marimo notebooks for the Energy Market and Market Operations teams

BillionToOne, Laboratory Information Management Systems Associate (Contract) 2025 — 2026

- Developed Python-based role and permissions audit tool for an enterprise laboratory information management system, implementing automated browser and API testing and generating executive-level reports for CAP inspection compliance
- Directed a cross-functional project spanning IT, engineering, lab teams, and leadership to implement end-to-end Python automation pipelines integrating Clarity LIMS, NAS storage, and BarTender to enable fully automated printing workflows, accelerating label generation by **8x** (4 minutes to 30 seconds) and improving sample turnaround time
- Led LIMS user support and system triage, resolving high-priority issues and absorbing **45%** of incoming tickets (60+/mo), contributing to the fastest turnaround times in the company's history

City College of San Francisco, Computer Science Teacher's Assistant & Tutor (Part-time) 2025

- Tutored students in OOP, data structures and algorithms, and computer architecture through 1:1 sessions, debugging support, and project guidance

Mission Bit, Lead Front-End Web Development Instructor (Part-time) 2024

- Led **curriculum design** and a team of 5 TAs and volunteers teaching front-end web development (HTML, CSS, JavaScript, Figma) to 30+ under-resourced high school students; helped them prepare capstone projects for hackathon
- Iterated on lesson pacing and project scope mid-cohort based on what students were struggling with; 100% of students completed and presented their own project on time

Recurse Center, Participant 2022

- Self-directed programming retreat. Explored data processing and UI interactivity through independent Python projects

Education

Georgia Institute of Technology Master of Science, Computer Science 2028 (expected)

City College of San Francisco Associate in Science, Computer Science 2025

University of California Davis Bachelor of Science, Wildlife, Fish, and Conservation Biology 2018

Research

De Guzman, E., Colombano, D., Durand, J., and Moyle, P. 2018. **Investigating the Role of Spring-Neap and Tidal Variability on Water Quality and Nutrient Across Marsh Habitats**. Presented at: Bay Delta Science Conference