

Samuel Ng

+1-619-450-9295 | ngkhsamuel@gmail.com | [LinkedIn](#) | <https://samuelng678.github.io/personalsite/>

Professional Summary

Software engineer with 3 years at F5 who actually enjoys the meetings most engineers avoid. Turns out I'm weirdly good at being the person who sits between our staff engineers and customers—taking "we need rate-limiting on our encryption" and translating it into "here's why this matters for your compliance roadmap and how it actually works." Spent as much time running demos and vendor integrations as writing code, contributing to 18% revenue growth. Looking for a Solutions Engineering role where being technical AND loving collaboration isn't a tradeoff—it's the job.

Experience

Software Engineer & Technical Project Lead // F5 Inc. | San Jose, CA | 09/2022 – Present

- Led full-stack implementation of Intel's next-gen and post-quantum crypto acceleration chips for BIG-IP—writing C plugins for driver interfaces, Go/Python/Bash automation for hardware bring-up and deployment, and C++ backend for production crypto operations. This work contributed to 18% systems engineering revenue growth
- Conducted proof-of-concept demonstrations for Intel Sierra chips on F5's sGen next-generation platform, presenting performance benchmarks and integration feasibility to internal stakeholders and Intel's engineering team
- Primary technical contact for Intel's hardware team, debugging integration issues across hardware initialization, SR-IOV virtual functions, driver installation, and containerized deployment—often the person translating between "here's what the chip can do" and "here's what our product needs"
- Built deployment automation and technical documentation, and delivered training sessions to internal teams on crypto hardware integration—materials that customer-facing teams used when discussing these capabilities with prospects

Software Engineer Intern // ProkoPark | San Diego, CA | 06/2021 – 11/2021

- Built customer-facing web and mobile applications using JavaScript, Python, React, and AWS-backed SQL database, working closely with leadership to align technical implementation with product vision and go-to-market timeline
- Designed IoT parking solution architecture using Arduino sensors and API integrations that projected 20% reduction in operational costs and 40% increase in space utilization—translating hardware constraints into software requirements

Computer Science Instructional Assistant // UC San Diego | San Diego, CA | 09/2021 – 06/2022

- Supported 450+ students in Computer Architecture course, providing technical instruction in C, C++, and ARM Assembly through lectures and 1:1 support.
- Conducted interactive discussion sections and office hours, helping students with programming challenges and reinforcing technical best practices.
- Assisted students in debugging and troubleshooting programming assignments, enhancing their understanding of low-level system concepts.

Data Engineering Intern // Azendian Solutions Pte Ltd | Singapore | 08/2020 – 10/2020

- Developed ETL pipelines using Python and SQL to aggregate and analyze student performance data, creating a predictive model that identified at-risk students.
 - Contributed to a 23% increase in mock O-level exam scores through targeted data-driven interventions.
 - Collaborated with stakeholders to discuss and implement advanced data strategies for educational analytics.
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Education

University of California, San Diego | B.S. in Mathematics and Computer Science | 06/2022

- Provost Honors
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Skills/Certifications

- Programming: C, C++, Go, Python, Bash, SQL, JavaScript, Java
- Infrastructure & DevOps: Linux/Unix, Docker, Kubernetes, Git, REST APIs, CI/CD
- Cloud: AWS (Certified Cloud Practitioner, Solutions Architect Associate in progress)
- Languages: English (Native), Mandarin (Intermediate), Japanese (Intermediate)
- Visa Status: Australian citizen, eligible for E-3 visa with all documentation prepared