

Samuel Ng

+1-619-450-9295 | ngkhsamuel@gmail.com | [LinkedIn](#)

Professional Summary

Experienced Software Engineer with 3 years in building scalable systems and collaborating across teams at F5 Inc. Eager to branch out into a Solutions Engineer or Technical Consultant role, applying my technical foundation in cloud infrastructure and problem-solving to deliver client-focused solutions and business value. Skilled at communicating complex ideas to non-technical stakeholders and driving efficient outcomes in dynamic environments.

Experience

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

- Implemented next-generation cryptographic acceleration support, enabling FIPS 140-3 compliance and boosting system performance, contributing to 18% systems engineering revenue growth.
- Guided cross-functional teams as technical liaison, advising on system integration and resolving client-facing issues to ensure smooth product adoption.
- Managed sprint task tracking in Jira and maintained status pages in Confluence, keeping stakeholders aligned and projects on track.
- Created and led technical training sessions for new engineers, simplifying complex cryptographic and system concepts into clear presentations.

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

- Developed customer-facing web and mobile applications using JavaScript, Python, Node.js, and React, integrating a SQL-backed AWS database.
- Participated in product meetings with leadership to align development with client goals and contribute technical recommendations.
- Implemented real-time parking solutions using Arduino sensors and API integrations, projecting up to a 20% reduction in parking garage overhead costs and up to 40% increased parking space adoption.

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.

Education

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

- Provost Honors

Skills/Certifications

- Programming: C, C++, Go, Python, Java, SQL, Bash,, HTML, CSS, JavaScript
- Infrastructure & DevOps: Unix/Linux, Docker, Kubernetes, REST APIs, Git
- Cloud & Certifications: AWS Certified Cloud Practitioner, AWS Certified Solutions Architect Associate (In Progress), The Complete SQL Bootcamp (Udemy)
- Networking & Security: TCP/IP Networking, Encryption & Cryptography, Compliance Standards
- Languages: English (Native), Mandarin (Intermediate), Japanese (Intermediate)
- Visa Status: Australian citizen, eligible for E-3 visa with all documentation prepared