

# STEPHEN KELMAN

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## Experience

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### Microsoft

Jan 2025 - Present

#### Software Engineer

- Eliminated 95% of manual infrastructure maintenance by converting deployments to a region-agnostic framework, allowing pipelines to be configured efficiently while deploying to 8+ environments across 58+ Azure regions.

### Everlaw

Jul 2024 - Jan 2025

#### Software Engineer

- Improved regression model accuracy by 20% for >1,000 customers, by updating the training (Java, Spring, SQL), to allow models to ignore corpus changes that had been measured as worsening model performance in past updates.
- Boosted productivity for 100+ engineers, helping kick off frontend improvement and unit testing initiatives by converting plain TypeScript files to React and writing full-coverage unit testing (JUnit5, Mockito) for my features.

### Amazon Web Services

Jun 2023 - Sep 2023

#### Software Engineer Intern – Network Security

- Reduced manual data analysis by 90% for AWS's largest & most data-intensive processing service by designing a cross-regional system of AWS Lambdas (Python, TypeScript) to monitor and flag system stats and events.
- Provided crucial analytics for 60+ AWS security teams using our platform, including query efficiency & event filtration rate across all datasets, by developing a set of interactive dashboards written in TypeScript, with AWS CloudWatch.

### Amazon Web Services

Jun 2022 - Sep 2022

#### Software Engineer Intern – Network Security

- Saved 500+ hours per year for threat response teams by building a network forensics tool using AWS Lambdas (Python) to analyze network and host-based security events from AWS S3 and Athena, and notify teams of suspicious events.
- Reduced external dependencies by 30% across my team's division, by discovering new internal network scanning tools and fixing bugs in network data APIs, which enabled critical resources to be consolidated into our division.

## Education

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### University of California, Los Angeles

Sep 2020 - Jun 2024

#### B.S. Computer Science, B.S. Mathematics

Los Angeles, CA

- **GPA: 3.993**, Summa Cum Laude, Phi Beta Kappa, Upsilon Pi Epsilon (Honor Society for Computer Science)
- **Relevant Coursework:** Data Structures & Algorithms, Networks, Data Management Systems, Machine Learning

### President @ ACM Cybersecurity, UCLA

Nov 2020 - Mar 2023

- Managed a 20-person team in designing workshops and CTF challenges, teaching 100+ students about exploiting common security vulnerabilities in binary executables, web apps, networks, and cryptographic protocols.
- Led training and development for club infrastructure, including a new React website.
- Created a projects track for 15 teams to learn about modern cybersecurity issues like finding vulnerabilities in interpreted languages; attacker tactics, techniques, and procedures; and threats to enterprise, cloud, and distributed systems.

## Projects

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### C++ Web Server

Jan 2024 - Jun 2024

- Developed web server to host & process markdown and other static files for 200 classmates, with a JavaScript frontend webpage, and a multi-threaded C++ backend, using a factory-based builder pattern to manage HTTP requests.
- Maintained 90% test coverage by writing 100+ unit and integration tests using the GTest library for C++.
- Enabled another team of 4 students to contribute their own servlet, for handling managing JSON, to our infrastructure by managing a flexible and intuitive API, loosely based on NGINX.

## Technical Skills

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**Languages:** Python, Java, C++, SQL, Rust, C#, Go, C, Bash, PHP, Typescript, Node.js, React

**Technical Tools:** Linux/Unix, Git, AWS, Docker, GTest, NGINX, Gradle, Java Spring, JUnit5, Jest, PyTest, Azure