

Theo Molina Wong

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Summary

Aspiring Software Engineer with three years of experience as a Software Development Engineer Intern at Amazon Web Services, specializing in cloud development and container security. Demonstrated ability to architect and implement scalable, serverless solutions using AWS technologies, enhancing system efficiency and reliability. Successfully developed tools for vulnerability mitigation and resource management, showcasing strong problem-solving and adaptability skills. Eager to leverage technical expertise and innovative thinking in a fast-paced software engineering role.

Work Experience

Amazon Web Services - EKS Security

Seattle, WA

Software Development Engineer Intern

Jun 2023 - Aug 2023

- Researched, architected, and implemented an automated service for identifying and mitigating vulnerabilities with container images hosted on AWS ECR, DockerHub, or any repository.
- Utilized a horizontally scalable and serverless cloud architecture for both client and server, using AWS Lambda, AWS SNS, and AWS S3, to improve system efficiency and reliability
- Container image scanning suite utilized AWS Lambda, AWS StepFunctions, AWS CodeBuild, and AWS ECR to provide on-demand security reports for remote or private repositories.
- Made the entire project replicable as an AWS CDK library, facilitating easy deployment and scalability

Amazon Web Services - EKS Node Runtime

Seattle, WA

Software Development Engineer Intern

Jun 2024 - Aug 2024

- Designed and architected my own projects after the original project idea was cut due to security concerns, demonstrating adaptability and problem-solving skills
- Architected and developed multiple tools to help ensure upstream breaking changes do not affect downstream customers.
- Used AWS QuickSight in combination with Lambda, and EventBridge to construct a GitHub Issue tracking dashboard.
- Created a GitHub Action responsible for summarizing long issue reply-chains via AWS Bedrock and GitHub APIs.
- Added a test to a Packer config, enabling the tracking of kernel parameter changes across different versions of AMIs, ensuring system consistency

Amazon Web Services - EKS Security

Seattle, WA

Software Development Engineer Intern

Jun 2022 - Aug 2022

- Developed a multithreaded tool for detecting and notifying employees of abandoned compute environments, improving resource management efficiency
- Leveraged AWS SigV4 and internal APIs to provide actionable results to managers, enhancing decision-making processes
- Provided functionality both as a stand-alone script or as a Lambda function, increasing flexibility and ease of deployment
- Utilized Python-web scraping to compensate for non-existent internal APIs, ensuring data availability for project needs

Case Western Reserve University

Cleveland, OH

IT Student Worker

Sep 2021 - Present

- Provided IT support to students, alumni, faculty, and staff, enhancing their productivity and resolving technical issues efficiently
- Troubleshoot hardware, operating systems, and software, ensuring smooth operation and minimizing downtime for users
- Assisted with more than 400 issues since September 2021, demonstrating strong problem-solving skills and commitment to user satisfaction

Education

Case Western Reserve University

Cleveland, OH

B.A., Computer Science

Aug 2021 - Jun 2025

Founder and President of Linux Club

Skills

Programming Languages: Python, C#, C, Bash, Rust, Go, C++, JavaScript, Typescript, Java, Kotlin

Areas of Expertise: Serverless Architecture, CI/CD, Cloud Orchestration, IaC, Computer Security, SCRUM/Agile DevOps, Document Driven Design, Backend Development

Systems: Nginx, Kubernetes, .NET, SQL, Hadoop, RHEL/Linux, NodeJS, GraphQL, AWS/Azure, Terraform, Packer, NixOS

Soft Skills: Ownership, Abstract Thinking, Earning Trust, Communication

Projects

Note Sharing Webapp (Cloud Based)

Aug 2023 - Aug 2023

- Acted as Git Master and sole Backend/Cloud Engineer for the group.
- Team followed Agile methodology in order to continuously and regularly demonstrate MVPs.
- Developed a Google Drive clone using NodeJS, AWS AuroraDB, PrismaORM, and ExpressJS.
- Project involved creating an Authorized Content Delivery Network using AWS S3 and AWS Cognito.
- Packaged Nodejs webapp as a Docker image for deployment on AWS ECS.

Home Kubernetes/Terraform Cluster

Sep 2023 - Sep 2023

- Created a Kubernetes cluster utilizing 5 separate machines for distributed jobs.
- Created a standard set of CRON jobs to ensure security resiliency and high availability without manual intervention.
- Successfully integrated Terraform support onto the cluster, allowing for streamlined and remote resource deployment.
- Utilized NixOS for reproducible and declarative system setups across multiple non-congruent computers.