

# Theo Molina Wong

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## Experience

### Cleveland Research Initiative

Cloud Engineer / DevOps Engineer

Cleveland, OH

November 2024 – Current

- Implemented multiple development best practices, including multiple deployment stages for both serverless backend and static frontend, pre-commit hooks to ensure clean git-trees, automated CI/CD pipelines for all repositories, and QoL scripts.
- Architected the majority of the backend and cloud architecture, resulting in a 20 times reduction of planned deployment cost.

### Amazon Web Services

Software Development Engineer Intern

Seattle, WA

June – September 2024

- Used AWS QuickSight in combination with Lambda, and EventBridge to construct a GitHub Issue dashboard.
- Created a CI GitHub Action responsible for summarizing PRs & issues via AWS Bedrock LLMs and GitHub APIs.
- Developed a Packer config to the EKS, enabling the tracking of kernel parameter changes across different versions of AMIs, helping mitigate a common deployment issue.

### Amazon Web Services

Software Development Engineer Intern

Seattle, WA

June – September 2023

- Researched, architected, and implemented an automated service for identifying and mitigating vulnerabilities in images hosted on any repository implementing the Docker Registry HTTP API.
- Utilized a horizontally scalable and serverless cloud architecture for both client and server, using AWS Lambda, AWS SNS, AWS S3 to improve system efficiency and reliability.
- Onboarded and trained another intern onto the project, utilizing Agile DevOps via Asana.

### Amazon Web Services

Software Development Engineer Intern

Seattle, WA

June – September 2022

- Developed a multithreaded Lambda function 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.

### Case Western Reserve University

Student Technician

Cleveland, OH

September 2021 – Current

- Provided IT support to students, alumni, faculty, and staff, enhancing their productivity and resolving software, hardware, and operating system issues efficiently.
- Helped resolve more than 500 issues since September 2021, demonstrating strong problem-solving skills and commitment to customer obsession.

## Education

### Case Western Reserve University

B.A. in Computer Science

Cleveland, OH

May 2025

Relevant Coursework: Algorithms, Data Structures, Discrete, High Perf Computing for AI, Software Engineering & Architecture

## Skills

**Programming:** Golang, Python, Bash, Typescript, JavaScript, Java, C#, Nix, SQL, REST, GraphQL

**Software:** Kubernetes, Docker, AWS, CDK, Terraform, PostgreSQL, Packer, Kafka, NixOS, Grafana, Datadog, Git, Nginx, Prometheus, Loki, Tailscale

**Protocols:** DNS, DHCP, LDAP, SSL/TLS, HTTPS, TCP/IP

**Areas of Expertise:** Backend, DevOps, Cloud, Linux, Container, Security, Serverless, CI/CD, IaC, Document Driven Design

**Soft Skills:** Ownership, Earning Trust, Customer Obsession, Communication, Customer Service

## Projects

### Declarative Server Deployment — Linux Club

- Planned and implemented a declaratively-configured server running NixOS using Open Source principles.
- Collaborated directly with the university's Network Security, Information Security, UTech, and Maker Space departments in order to create a policy-compliant server, accessible to all university affiliates.
- Created multiple resources to facilitate learning and mastery of Linux environments, catering to multiple fields of science including software engineering, medicine, and data science.

### Google Drive Clone — CSDS 293 Software Engineering

- Followed Agile methodology in order to continuously and regularly demonstrate MVPs to stakeholders.
- The project involved creating an Authorized Content Delivery Network (CDN) using AWS S3 and AWS Cognito.
- Deployed the Node.js server as a container onto AWS ECS, with integrations to AuroraDB via Prisma ORM and Express.js.

## Leadership

### Linux Club (CWRUnix)

President & Founder

Cleveland, OH

August 2023 – May 2025