

Cole Robinson

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PROFESSIONAL SUMMARY

Cal Poly Computer Engineering graduate (Cum Laude) and AWS Certified Cloud Practitioner who builds full-stack cloud applications and AI-driven automation, leveraging infrastructure-as-code to design and deploy on AWS.

EDUCATION

California Polytechnic University - San Luis Obispo **June 2023**
Bachelor of Science in Computer Engineering, *Cum Laude*

AWS Certified Cloud Practitioner **November 2024**

RELEVANT WORK EXPERIENCE

Caliagua Inc. - IT/Business Analyst, Manager **Winter 2025-Present**

- **Architected** and deployed a full-stack internal web application (NestJS API + React frontend) on AWS using Docker containers for employee-facing operations
- **Designed** ETL pipelines to aggregate data from Primavera P6, ERP systems, and SaaS platforms into a centralized PostgreSQL database on AWS via REST APIs
- **Automated** financial reporting using Python scripting against Microsoft SQL Server, replacing manual Excel workflows with scheduled, reproducible reports
- **Developed** and deployed a client-facing Next.js web application used by our estimating team to drive revenue and win more jobs, hosted on AWS
- **Built** an interactive jobsite map using the Google Maps API, extracting photo GPS metadata to pin site images to precise locations with S3-hosted storage

MobilityWare - DevOps, Intern **Summer 2022**

- **Collaborated** with the DevOps team to automate AWS cloud infrastructure using Terraform (IaC)
- **Introduced** to cloud security by configuring subnets, security groups, NACLs, and security policies
- **Gained** hands-on experience with production-scale AWS infrastructure supporting millions of active users across MobilityWare's mobile gaming portfolio
- **Partnered** with backend engineers to align provisioned AWS resources with technical requirements

TECHNICAL PROJECTS

ESP32-CAM Security System (C/C++, Terraform) **Summer 2024**

- Integrated FreeRTOS on ESP32's dual-core architecture for image processing and HTTPS uploads
- Provisioned API Gateway, S3, AWS IoT, and serverless Lambda functionality using Terraform

TECHNICAL SKILLS

Programming and Scripting Languages

- Python, TypeScript, C/C++, SQL, Java, Golang, Terraform, C#, JavaScript, Assembly

Cloud Technologies

- AWS Application Security (Encryption, IAM, Least Privilege Principle, User Groups, Fault Tolerance)
- Containerization & orchestration (Docker, Kubernetes, AWS ECS/EKS)

Software Engineering Practices

- Agile workflow, Code Review, Git Processes, CI/CD Automation, Test Driven Development
- RESTful API design & Web API standards: REST, JSON data modeling, HTTP status codes
- Data modeling & database design — relational normalization, schema design, and referential integrity

Frameworks and Technologies

- Linux OS and CLI (Ubuntu, Debian, Alpine), Virtual Machines, Git, VMWare, Wireshark, SSH/SCP
- Claude Code CLI, Prompt-driven programming and design, Parallel agents (Git Worktrees)