Adil Quamar

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TECHNICAL SKILLS
- **Languages:** TypeScript, JavaScript, Java, Python, C++, SQL, HTML/CSS
- **Frameworks & Libraries:** React, Node.js, Express, Redux, Google Firebase
- **Cloud & DevOps:** AWS (API Gateway, Bedrock, CDK, VPC, SNS, SQS, ECS), Infrastructure as Code (IaC), CI/CD, Unit/Integration Testing
- **Tools:** Git, ROS, MAVROS, Unix/Linux

PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS) | *Software Development Engineer* | **Jan 2024 – Present**

- **Tier 1 Service Ownership:** Engineer the Management Console for **AWS API Gateway**, a mission-critical Tier 1 service, utilizing **React**, **TypeScript**, and **AWS CDK** to enable infrastructure management at global scale.
- **Dynamic Traffic Routing:** Spearheaded the console implementation for **Dynamic Routing Rules**, allowing customers to route traffic via **HTTP headers** and URL paths; eliminated proxy layers for enterprise users and enabled seamless A/B testing and API versioning.
- **Generative AI Infrastructure:** Architected a cross-console integration for **API Gateway** and **Amazon Bedrock AgentCore**, launching the **Model Context Protocol (MCP)** proxy to transform REST APIs into AI-compatible tools with semantic search discovery.
- **Product Lifecycle Leadership:** Orchestrated high-visibility feature launches by coordinating with UX designers and technical writers to translate complex networking logic into intuitive user interfaces for mission-critical services.
- **Operational Excellence:** Developed automated monitoring suites, including real-time dashboards and high-fidelity alarms using **CDK**, ensuring 99.9% service health during global, multi-region feature rollouts.
- **Networking Innovation:** Delivered frontend support for **VPC Lattice Custom Domain Names** ahead of schedule, simplifying cross-account connectivity and resource sharing for VPC owners.

Amazon (Lab 126) | *SDE Intern* | **June 2021 – September 2022**

- **Cloud Architecture:** Designed a cloud-based content freshness system using **AWS SNS, SQS, and ECS/Fargate**, automating real-time UI updates for Alexa multimodal devices based on user settings.
- **API Engineering:** Developed **RESTful APIs in Java** to power internal feedback collection skills, streamlining data visualization for product teams and improving device-wide user experience.
- **DevOps:** Leveraged AWS infrastructure to host and scale containerized applications on ECS/Fargate, ensuring reliable production deployments.

LEADERSHIP & PROJECTS

Unmanned Aerial Vehicle (UAV) Forge | *Computer Vision Team Lead* | **September 2022 – June 2023**

- Led a team of five engineers to develop modular software for drone object detection and geolocation using **ROS** and **MAVROS** protocols, resulting in successful payload delivery from 75ft+.

Hack UCI | *Team Lead & Full-Stack Developer* | **February 2022**

- Engineered a mobile web app (Node.js/Firebase) to optimize gym equipment turnover; awarded **Best Social Good Hack** and **Best Product Pitch** out of 500+ participants.

EDUCATION

University of California, Irvine | **June 2023** *Bachelor of Science in Computer Science and Engineering*

- **GPA:** 3.8 / 4.0
- **Honors:** Magna Cum Laude, Dean's Honor List (All Quarters)