HOANG TRAN

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PROFESSIONAL SUMMARY

Cloud and Software Engineer with over 3 years of experience designing, developing, and deploying scalable, cloud-native solutions on AWS. Proven expertise in Infrastructure as Code (IaC), serverless architecture, and building high-performance data pipelines. Adept at architecting hybrid SQL/NoSQL backend systems that have resulted in 100x performance improvements. AWS Certified Cloud Practitioner seeking to leverage deep technical skills to solve complex engineering challenges.

SKILLS

Cloud/DevOps: AWS (Full Suite), Infrastructure as Code (IaC), Terraform, AWS CDK, CloudFormation, Docker, Git, Shell Scripting

AWS Services: EC2, S3, Lambda, ECS, ECR, VPC, DynamoDB, Aurora, Redshift, SQS, SNS, API Gateway, CloudWatch, Route 53, Athena

Programming Languages: Python, JavaScript, TypeScript

Databases: NoSQL (DynamoDB), SQL (PostgreSQL/PostGIS, MySQL, Aurora, RedShift)

Languages: Fluent in English and Vietnamese

EXPERIENCES

L3Harris / Acron Aviation   St. Petersburg, FL

Cloud / Software Engineer   March 2022 – Present

- Partner with AWS Professional Services to architect and implement robust, cloud-native solutions on the L3Harris enterprise cloud platform.
- Lead the cloud architecture for the Cockpit Voice Recorder (CVR) Automation project, utilizing AWS CDK and Terraform for Infrastructure as Code (IaC) to ensure reproducible and scalable deployments.
- Architect a high-throughput data pipeline to ingest and process millions of flight records for the Acron Aviation Pilot App.
- Design a hybrid backend system using AWS Aurora (SQL) and DynamoDB (NoSQL), which improved data query speeds by 100x and enabled real-time flight analysis for pilots.

Key Achievements:

- **L3 2023 Performance First Award**: Recognized for outstanding individual contributions and technical excellence.
- L3 2022 Innovation Award (Team): Awarded for the collaborative development of innovative platform solutions.

Aquaveo, LLC   Provo, UT

Full-Stack Developer   April 2017 – February 2022

- Developed and enhanced the Tethys web platform using Django (Python), creating custom applications with a Postgres/PostGIS backend to provide public access to complex groundwater models.
- Containerized application components using Docker and orchestrated deployments to ensure scalability and system reliability.
- Engineered and maintained a custom web tool for Texas Groundwater Conservation Districts using PHP, MySQL, JavaScript, and the Google Maps API.

Consultant/Civil Engineer   April 2012 – February 2022

- Led professional training courses on groundwater modeling software and techniques.

EDUCATIONS

Brigham Young University   Provo, UT

- Master in Civil Engineer   April 2012
- Bachelor of Science in Civil Engineer   April 2010