Austin Derbique

Software Engineer

Phoenix, AZ 85014

(858) 207-8920

austin@derbique.us

www.linkedin.com/in/aderbique

www.github.com/aderbique

www.derbique.org

Accomplished Software Engineer and Technical Lead with 8 years of experience in architecting, leading, and developing scalable, complex systems. Expertise in driving strategic decisions, mentoring teams, and delivering impactful Cloud, Embedded, and Autonomous solutions. A collaborative leader with a strong technical background and advanced degrees in Computer Science, blending hands-on skills with project management and technical strategy.

Skills

- Cloud Architecture
- Security & Compliance
- Backend Development
- FinOps
- Tolerance for Ambiguity
- Communication with Peers

Work History

2022-04 - Current

Cloud Engineer

Woven By Toyota, Remote

- Lead technical integration for company acquisitions and mergers, ensuring seamless transitions and system coherence.
- Architect and develop internal tooling for role-based access control, securing access to hundreds of Toyota systems for employees globally.
- Spearhead FinOps initiatives, optimizing AWS cloud spend and achieving over $4 million in savings across our organization.
- Overhauled legacy CI/CD pipelines, migrating them to Terraform and GitHub Actions to improve automation, scalability, and maintainability.
- Serve as Tech Lead and Subject Matter Expert (SME) for multiple high-impact integration projects.

2021-03 - 2022-04

Software Engineer, VICE

Viasat, Tempe, Arizona

- Built Viasat's global identity system scaling to thousands of users across multiple partner companies in AWS without using VPCs.
- Additionally responsible for developing & maintaining Viasat Cloud Engineering products (VICE). This includes highly available (HA) infrastructure for a variety of systems such as LDAP, JWT, SAML, OIDC, PKI, and DNS services.

- Additional responsibilities include On-Call rotational shifts to support internal customers for mission critical workloads servicing commercial airlines, government, and residential subscribers.
- Reduced organization cloud cost usage by tens of thousands of dollars

2018-02 - 2021-03

Software Engineer, Operations

Viasat, Tempe, AZ

- Architected, implemented, & deployed HA, NIST 800-171 compliant workloads in multi cloud environments.
- Led multiple migration efforts for workloads from on-premise to AWS & OpenStack.
- Performed as subject matter expert for AWS and offered cloud consulting to neighboring teams.
- Served as Tech Lead for new products and maintained direct involvement from project inception to completion.

2017-05 - 2017-08

Embedded Test Development Intern, Operations

Viasat, Carlsbad, CA

- Performed embedded kernel development on FPGAs as well as build out automation and test procedures using Yocto & Python.
- Decreased build time by 70% by intelligently building for specified targets.

2016-01 - 2016-12

Design Engineering Intern

Samsung Electronics, Logan, UT

- Performed firmware & hardware prototype testing.
- Created & updated PCB designs & layouts for visual displays.
- Responsible for BOM management of visual displays for Samsung ERP systems.

2015-06 - 2015-08

Radio Frequency Engineering Intern

Infineon Technologies, Munich, Germany

- Performed radio frequency measurements (S-Parameter, Harmonics).
- Assembled & verified evaluation boards.
- Wrote automation of measurement processes in Matlab to better visualize performance of chips. Reduced report generation time by 90%.
- Played key-role in adopting new automation methods for parameter verification.

Education

2020-08 - 2022-05

Master of Science: Computer Science

Arizona State University - Tempe, AZ

- Research Interests include Edge Computing, IoT, Autonomous Vehicles, Software Defined Networks, Adversarial attacks on CPS
- Dean's List Fall 2020, Spring 2021, Fall 2021
- Relevant Coursework Completed: Blockchain Applications, Data Processing at Scale, Advanced Network Security, Artificial Intelligence, AI Safety & Ethics, Knowledge Representation, Safe Autonomy for Cyber-Physical Systems (CPS), Applied Cryptography, Software Requirements & Specification
- Team member of Virtualized Infrastructures, Systems, and Applications (VISA) Lab at ASU.

2013-08 - 20172

Bachelor of Science: Computer Science

Utah State University - Logan, UT

- Minored in Mathematics, Physics
- Dean's List Spring 2017
- President of Free Software & Linux Club (FSLC)
- Member of Autonomous Robotics Submarine Team (RoboSub)

Certifications

2019-04 Amazon Web Services Solutions Architect - Associate

2022-05 Amazon Web Services Solutions Architect - Professional

Methodologies

- Object Oriented Programming (OOP)
- Don't Repeat Yourself (DRY)
- Scrum / Agile / Kanban
- DevOps Philosophy
- Objectives and Key Results (OKRs)
- Five Pillars of a Well-Architected Framework

Software

AWS, Azure, GCP OpenStack

Linux (RHEL, Debian Systems), Windows

Version Control Management (Git)

Atlassian Products (Jira, Confluence)

CI/CD (Github Actions, Gitlab, Jenkins)

Monitoring (Grafana, Cloudwatch, PagerDuty)

Configuration Management & IaC (Ansible, Cloudformation,Terraform)

Containerization (Docker, ECS, K8s)

Languages

Python, Bash, Java — Excellent

NodeJS, Matlab, C++ — Very Good

Haskell, Prolog, Verilog, MIPS Assembly — Good

Interests

Contributing to opensource projects. Visit my Github.

Learning new programming languages & methodologies

Writing literature surveys on emerging computer science fields. See LinkedIn for posts