

Adam Alston

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SKILLS

Languages: TypeScript, JavaScript, Bash, Python, Java, Clojure, SQL
Technologies: React, Node.js, CI/CD, Docker, Linux, AWS, OpenShift, Perforce

EXPERIENCE

Advisory Software Engineer | IBM | US Feb 2023 - Present

- Orchestrated the design and development of scalable, high-performance web applications leveraging React.js and Angular.js, achieving exceptional responsiveness and compatibility across browsers.
- Pioneered the overhaul of CI/CD pipelines via GitHub, Travis, and Docker, cutting deployment times by 80% and noticeably boosting deployment frequency.
- Mentored junior engineers, instilling best practices in code development and testing, and facilitated a knowledge-sharing culture that enhanced team productivity and efficiency.
- Architected and developed microservices-based infrastructure to support evolving web applications, focusing on code reusability, system scalability, and maintainability.

Software Engineer | IBM | US Jan 2021 - Jan 2023

- Led a team of 5 engineers to develop an inter-cloud cost calculator using JavaScript and React, enabling IBM Cloud Satellite users to estimate deployment costs on various cloud platforms (AWS, Azure, etc.).
- Designed and implemented a microservice to process independent cost data and aggregate it for configuration, streamlining a week-long process into one that could be completed in less than 5 minutes.
- Developed a modern UI for DataPower, consisting of over 300 pages, using TypeScript, React, and the Carbon Design System.
- Led DevOps for the DataPower UI team implementing CI features including test parallelization, caching, and Docker utilization, cutting build times from 45 min to 20 min with 900+ Cypress tests.

DevOps Engineer | Insight | San Francisco, CA Sep 2020 - Dec 2020

- Engineered Overwatch, an AWS monitoring tool using Docker, Prometheus, and Grafana, that can be set up in minutes to track CI/CD pipelines in the cloud.
- Collaborated on KubeSat, an infrastructure tool that manually deploys Kubernetes to AWS using Terraform and Ansible for more control over the cluster(s).

UNC Computer Science | Chapel Hill, NC

Cybersecurity Researcher Jan 2020 - Aug 2020

- Cross-validated password strength on a 7000-point dataset and discovered that roughly 35% of passwords can be trivially defeated, identifying ineffective password security practices.
- Explored online privacy in relation to the 120% growth in digital fingerprinting since 2016.

Accessibility Researcher Jan 2019 - Dec 2019

- Developed Summarizer, a full stack web app and browser extension to consolidate web articles by 75-99% into a digestible summary with one click.
- Created voice-controlled Poker with audio feedback for visually impaired players, and transitioned 4 games to keyboard controls for players with limited mobility.

QA Engineer | Self-Employed | Remote Sep 2015 - July 2019

- Conducted product design reviews for 12 apps during the SDLC and documented 200+ software defects involving program content, functionality, and output using Jira.
- Automated manual testing protocols with Jest and XCTest by writing more than 100 tests.

EDUCATION

B.S. | Computer Science | University of North Carolina - Chapel Hill

2020