Dallas Johnson
Software Engineer

I work hard to deliver a smooth experience for both customers and developers, enjoy designing robust, scalable systems, and constantly pursue challenges that expose me to new people, new architecture paradigms, and new technologies.

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Professional Experience

Software Development Engineer II
Amazon.com • Echo Devices • Jan 2020 - Present

- Reduced team onboarding time from three weeks to less than 2 days through hardware preparation, documentation, and scripting of the onboarding process.
- Enabled Echo devices to serve speech reminders while offline. Served 320M monthly user requests and prevented 570K monthly missed reminders.
- Designed privacy state recovery to ensure that the red mute ring maintains visibility even after software crashes, preventing 32K monthly user-facing failures.
- Designed agent-specific sound effects with two partner teams, and scaled for thousands of devices at Disney resorts.
- Created 3D printed debug hardware and delivered over 30 debug boards to QA teams in Sunnyvale and Chennai.

Software Development Engineer I
Amazon.com • eCommerce Efficiency • Jan 2019 - Jan 2020

- Analyzed technology options for data storage and computation, changing product direction and achieving a 25X cost reduction.
- Designed a robust hardware capacity management system utilizing AWS Lambda, DynamoDB, CloudFormation, and S3. Saved Amazon over $1M annually and scaled to support over 1000 teams for automatic capacity scaling.

App Developer & Instructor
Ardent Academy • Apr 2017 - Sep 2018

- Developed class scheduling app using React Native and GraphQL backend, serving a student population of about 200.
- Established curriculum for a React Native app development course. Instructed classes of 15 - 20 students aged 10-16.

Professional Experience cont.

Information Technology Specialist
LT Associates • Sep 2014 - Sep 2016

- Maintained and upgraded computer hardware, software, and server infrastructure for a 50 person company.

Education

BS in Computer Science and Engineering
University of California, Irvine • Dec 2018

- Designed a RISC-V CPU in Verilog.
- Wrote a compiler for the Cool programming language.
- Additional coursework in C, C++, Java, Python, and Tensorflow.

Technical Skills

Javascript · Python · C++ · ReactJS · Typescript · GraphQL · Unix · AWS DynamoDB · AWS Lambda · Docker · AWS CloudFormation

Soft Skills

New Hire Onboarding · Thorough Documentation · Effective Communication · Time Management

Interests

- Embedded Systems
- Virtual Reality
- User Interfaces
- CAD & CAM

Check my website for all of my resume and work experience updates!

https://www.dallas-j.com