

Dallas Johnson

Software Engineer

I am currently hard at work building out our portfolio of Echo devices here at Amazon. I love C++ and Javascript, and constantly pursue robust, malleable, and scalable software architecture paradigms.



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📍 Irvine, California

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Professional Experience

Software Development Engineer II

Amazon.com • Irvine, California • January 2020 - Present

- Allowed 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 our signature red mute ring is shown 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.
- Reduced team onboarding time from three weeks to less than 2 days through hardware preparation, documentation, and scripting of the onboarding process.

Software Development Engineer

Amazon.com • Sunnyvale, California • January 2019 - January 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 • Irvine, California • April 2017 - September 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.

Education

BS in Computer Science and Engineering

University of California, Irvine • December 2018

- Programmed in many languages, including Python, Java, C, and C++
- Designed a RISC V CPU in Verilog
- Wrote a compiler for the Cool programming language
- Took an introductory course in machine learning using Python & Tensorflow

Technical Skills

Javascript

Python

C++

ReactJS

Typescript

GraphQL

Unix

AWS DynamoDB

AWS Lambda

Docker

AWS CloudFormation

Shell Scripting

Soft Skills

New Hire Onboarding

Thorough Documentation

Effective Communication

Time Management

Interests



Embedded Systems



Virtual Reality



User Interfaces



Machine Learning



CAD & CAM



Reading