

JAMES SHAO

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<https://jshao.dev>

Work Experience

Qualcomm, San Diego, CA, July 2018 - present

Software Engineer

- Lead developer for team's AWS design, implementation and maintenance; serving tens of millions of devices world-wide. Robustly designed to easily navigate rapidly changing data privacy laws on a country by country basis.
- Saved \$10,000/mo through AWS efficiency improvements. Decreased lambda run time by over 50%, decreased amount of lambda calls, and implemented caching to prevent redundant calls.
- Lead developer for team's Android app responsible for silently managing device uploads and downloads. All uploads made from device are encrypted and verified on the AWS backend to prevent tampering.
- Worked on and redesigned a modular test system to ensure changes across multiple projects passed internal end-to-end, edge-case, and build tests before getting merged into mainline codebase

Qualcomm, San Diego, CA, Summer 2017

Software Engineering Intern

- Ported essential graphics test packages to an updated framework using C++. The new framework allowed for automated testing and saved developers hours of manual physical testing.
- Improved test coverage for essential graphics functions by 17%, adding tests for features that previously were assumed working provided non-related existing tests passed.

The Boeing Company, St. Louis, MO, Summer 2016

Software Development Intern

- Wrote a stand-alone program in Java that formatted and fixed data from a legacy database before it could be ported to a new system
- Added extra translation features including an XML comparison report that saved field engineers hours of manual work
- Built an essential plugin that calculates bundle widths; crucial data needed by engineers to design internal wiring and structure

Projects

Intelligent Search, Java, C++, Bash, SQL, Visual Basic

[github://IntelligentSearch/Search](https://github.com/jshao100/IntelligentSearch/Search)

- Led a team of 5 students to create a lexical search for on-campus meal options and real-time bus routes.
- Held weekly scrum meetings and proactively re-distributed workload as needed to ensure project was delivered on time
- Created a RESTful API and backend structure using Java and C++
- Worked alongside CityBus and developed a live bus tracking API and route planner using Visual Basic and Java

Education

Purdue University, West Lafayette, IN, May 2018

B.S in Computer Science, Minor in Psychology

- Track focuses of Machine Learning and Software Engineering

Skills

Languages

Java
Python
C
C++
Bash

Technologies

SQL
Scikit
Keras

Android

Selinux
App design

AWS

Lambda
DynamoDB
EC2
API Gateway
IAM
Cloudwatch
S3
KMS

Web Technologies

Javascript
PHP
HTML
CSS / SASS

Other

Git
Agile / Scrum
Test automation

Links

[github://jshao100](https://github.com/jshao100)
[linkedin://jamesshao](https://www.linkedin.com/in/jamesshao)