

# Jacob Swanson

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## Skills

Languages	Java, SQL, TypeScript, PHP, Bash
Tools	Spring Boot, Hibernate, MySQL, PostgreSQL, Redis, Solr
Cloud Services (AWS)	ECS, EC2, Fargate, RDS, ElastiCache, CloudFormation, S3, CloudWatch, Cognito, SQS, SNS, Event Bridge, Kinesis, API Gateway, Lambda, Batch, DynamoDB
DevOps	Linux, Docker, Linux, Azure DevOps, AWS CDK, New Relic, PagerDuty, Renovate

## Experience

### Talroo (formerly Jobs2Careers)

Senior Software Engineer

Austin, TX

August 2019 – August 2023

Software Engineer

April 2017 – August 2019

- Led the development of the Platform, a RESTful API using AWS and Java, to replace a legacy PHP system.
  - Enabled seamless integration for internal teams and external customers, fostering collaboration.
  - Engineered a robust event-driven system, slashing lead and application delivery time from 10 min to 1 sec.
- Worked closely with product managers, ensuring successful feature delivery with scrum-based teams.
- Optimized the job import system, addressing operational issues and increasing horizontal scalability from 20 to over 150 machines, efficiently handling up to 250 million jobs per day.
- Played a pivotal role in identifying and addressing issues affecting various systems, resulting in monthly savings exceeding \$100k.
- Collaborated to resolve operational and scaling issues for jobs2careers.com, achieving 99.9% uptime and efficiently handling up to 150k requests per minute.
- Proactively monitored for problems and security issues using CloudTrail, CloudWatch, and New Relic.
- Orchestrated seamless upgrades of software dependencies, runtimes, and infrastructure.
- Built and maintained CI/CD pipelines for new and existing software using Azure DevOps.
- Provided dedicated support for the sales department by addressing bugs and implementing minor features.

### Geeks and Nerds (GaN)

Software Engineer

Huntsville, AL

September 2014 – October 2016

- Worked within a small agile team to develop web applications using Java, Spring Boot, Angular, and D3.
- Independently developed high-quality and well-documented software under guidance from senior engineers.

### Mentor Graphics

Intern Software Engineer

Huntsville, AL

January 2013 – August 2013

- Developed unit, integration, and performance tests in Java to find bugs and detect regressions, achieving code and branch coverage goals.
- Actively monitored and analyzed automated test results to proactively identify regressions, enabling swift corrective actions.

### Alabama A&M University / University of Alabama in Huntsville

Contract Developer / Student Researcher

Huntsville, AL

June 2011 – August 2011

- Collaborated with a small team to create “Water Wheels”, a mobile lab for teaching water conservation using an educational video game and an audiovisual home rain-capture system demonstration.

## Education

### University of Alabama in Huntsville

Bachelor of Science, Computer Engineering

December 2014