(626) 353 - 5807

SOFTWARE ENGINEER

EXPERIENCE

Artech LLC @ Google

Software Engineer (Contract)

Oct 2023 - Present

May 2021 - Mar 2023

• Rewrite backend for a Python research publication web app using internal Google Java frameworks, database, and infrastructure (Guice, Spanner, Protobuf, etc.), allowing integration with internal tools and increasing research org adoption

Electronic Arts

Gameplay Software Engineer

- Battlefield Mobile Worked in Unreal Engine 4 using C++ and Blueprints focusing on weapon gameplay
- Fixed weapon and animation state for sniper bolt, added canceling aim input, and improved shell casing particle system
- Implemented weapon perks based on designer requests, such as increased spotting duration and swapping projectiles
- Empowered designers by exposing C++ gun firing logic in Blueprints and armor types with Gameplay Tags
- Fixed reload camera/ADS animation/weapon spread bugs, modified view to Horizontal FOV+ and added a UI slider setting
- Unreleased Star Wars 4x Multiplayer Title Unity C# client and a Typescript server, deployed on GCP
 - Defined and implemented full stack inventory features: out-of-resource flows, random reward chests, and selectable reward chests. Handled client prediction, added test coverage, and updated game design data
 - Designed and implemented inventory bot behaviors using behavior trees to assist in load tests for scalability
 - Enhanced troop, hero, and buff systems to add troop march and troop capacity limits, including hero passives

Sony Interactive Entertainment

Software Engineer II

- Worked on PS5 Official News, a Spring + React app on AWS for Sony and partners to manage posts and campaigns
 - Learned React to write components for searching/listing data, validated complex rules, and utilized Redux and Jest
 - Used OAuth and gRPC to wrap internal APIs for a public site, set up Okta users/roles in SQL, used Elasticsearch for search
- Designed and implemented a voucher code generation system with new business rules, better performance, and encryption
 - Devised a migration plan for 4.2B legacy voucher codes with minimal application downtime
 - Optimized voucher code migration job's runtime from several months to a little over a week
 - Worked on a Java + Spring web app for voucher codes and supported the effort to split the monolith into microservices
 - Added features to the app (e.g. sending emails with AWS SES, downloads through AWS S3 or SFTP) and seamlessly shifted the app to use AWS over self-hosted data centers. Refactored secret management code to reuse across various apps.
 - Built a new microservice to securely deliver voucher codes to partners; scaled up from 900K to 10M codes per order

GumGum

Software Engineer

- Visual Intelligence (VI) Java + Spring web app using computer vision to detect brand value in social media images
 Worked with a big data pipeline ingesting ~15M posts daily through AWS Kinesis, Apache Storm, AWS S3 and Elasticsearch
- Developed a new data pipeline to ingest ad publisher images into VI, upgraded Java consumer of GNIP (Twitter data) to 2.0
- Rewrote image/analytics endpoints of the VI API to use a common query filter so user searches carried across pages
- Scripted in Python to make reports (top keywords, Sports Sponsorship analysis), modify Elasticsearch data, use 3rd party APIs

UCI Office of Information Technology

Programmer Analyst II, Student Financials

- Migrated data to the Ellucian student system (SQL/Oracle), added variable rate loans in Java web apps (Spring, Jasper Report)
- Scripted Bash job to securely transfer (SFTP) and archive reports from Bank of America to school departments

Student Programmer

- Developed a Java + Spring + Hibernate web application to allow staff to manage lab fees for academic quarters
- Wrote SQL and Bash scripts to migrate and convert 100+ tables from the old financial system

EDUCATION

University of California, Irvine (Cum Laude)

• B.S., Computer Science; B.S., Software Engineering

SKILLS

- Languages: Java, C#, C++, Javascript, Typescript, Python; SQL; Bash; HTML/CSS
- **Tools:**, Unity, Unreal Engine 4; Git, Perforce; UNIX; Spring, Hibernate; React; AWS; Selenium; Elasticsearch

Mar 2018 - April 2021

Sept 2016 - Feb 2018

Jul 2015 – Sept 2016

Dec 2012 – Jun 2015

June 2015

GPA: 3.8