

# ANTHONY KHOSHROZEH

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## SOFTWARE ENGINEER | BACKEND DEVELOPER | FULL STACK

Results-oriented, dynamic, and self-motivated Software Engineer with knowledge of data analysis, programming, and software engineering best practices. Leverages understanding of relevant product areas, codebases, and systems to produce high quality solutions using modern frameworks while collaborating with cross-functional teams.

## SKILLS AND TECHNOLOGY

**Programming:** Python, SQL, Java, C/C++, JavaScript, HTML, CSS

**Libraries/Platforms:** Node.js, Express, React, Mocha

**Data/Databases:** MySQL, PostgreSQL, MongoDB, NoSQL

**Cloud/Technologies:** Amazon Web Services (AWS) S3, Amplify, Linux/Unix

## EDUCATION

Bachelor of Science in Computer Science | University of California, Los Angeles (UCLA) | June 2022

## PROFESSIONAL EXPERIENCE

**Junior Software Engineer**, StudioDev, Los Angeles

**January 2022 - June 2022**

Tech stack: Javascript, Solidity, Mocha

- Designed and implemented backend architecture for a blockchain startup on the Ethereum network to create a decentralized in-game economic system
- Built authorization mechanism via cryptographic primitives using JavaScript and Solidity to create services for approved users only
- Designed and implemented cryptocurrency escrow software and algorithms in Solidity that allows users to earn in-game rewards based on asset traits
- Developed cross-chain bridge in JavaScript that allows cryptocurrencies to be transmitted across different blockchain networks, reducing user costs by up to 90%
- Redesigned backend architecture and API to reduce client requests by up to 99%, resulting in company network gateway costs reduced by at least 50%
- Wrote unit tests with the JavaScript framework Mocha to achieve 95% test coverage and performed static analysis and fuzzing for code review and auditing to ensure secure and robust software

## PROJECTS

### MyQuiver

React, Express, Node, MySQL, AWS (S3, Amplify)

- Designed and implemented a full stack web application for buying and selling surfboards based on location, giving users improved and realistic search filters for surfboards.
- Built a real-time messaging system using socket.io allowing users to efficiently communicate with each other.
- Implemented authentication and authorization with AWS Cognito and JSON Web Tokens (JWT).

### Server Herd Architecture

Stack: Python, Google API

- Developed a distributed backend architecture using Python concurrency library asyncio that allows servers to effectively communicate rapidly-evolving data.
- Implemented a concurrent network flooding algorithm to propagate GPS coordinate information using an event-driven library.

### Markdown Blog

Stack: Angular, Node.js, Express, Mongo DB

- Created a MEAN full stack app that allows users to create, edit and update blog posts in Markdown.
- Implemented user authentication via JSON web token (JWT) to allow seamless and secure logins.
- Developed RESTful API to update, insert, retrieve and delete posts for authenticated and authorized users.
- Analyzed server performance with open source loading testing tool Locust to determine server stress limits.

### Twitter Sentiment Analysis

Stack: Django, React

- Contributed to Full stack web app that performs sentiment analysis on keywords using data from Twitter.
- Utilized Twitter API to gather tweets and Google NLP API to calculate sentiment scores from stored tweets.
- Developed user interface with different graphical displays to present data in a comprehensible format.