

ANTHONY KHOSHROZEH

SOFTWARE ENGINEER | BACKEND DEVELOPER | FULL STACK

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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. Engineered a decentralized in-game economic system for a blockchain startup, reducing client requests by up to 99% and lowering company network gateway costs by at least 50%.

SKILLS AND TECHNOLOGY | Back-end | Full Stack

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

Libraries/Frameworks: Node.js, Express, React, Mocha, Tailwind

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

Cloud/Technologies: Amazon Web Services (AWS) S3, Lambda, Athena, Glue, Amplify, Linux/Unix, Git

Professional Skills: Teamwork, Leadership, Communication, Problem Solving, Adaptability, Analytics

EDUCATION

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

PROFESSIONAL EXPERIENCE | Back-end | Full Stack | Python

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

Full Stack Web Developer with Expertise in E-Commerce and Real-Time Communication | MyQuiver | Current

Stack: React, Express, Node.js, MySQL, AWS (S3, Amplify), TailwindCSS

- 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).

Backend Engineer, Automated Serverless Data Pipelines | Youtube ETL Pipeline

Stack: Python, SQL, AWS (Athena, Glue, S3, Lambda, QuickSight, IAM)

- Developed an ETL pipeline with AWS S3, Glue, and Lambda, enabling scalable YouTube data analytics.
- Implemented IAM and Athena for secure, efficient querying, improving analytics efficiency.
- Utilized QuickSight for processed data visualization, enhancing data-driven decisions on video metrics.

Python Backend Developer, Distributed Systems and Google API Integration | 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.

Full Stack Developer, Twitter API, Google NLP API | Twitter Sentiment Analysis Integration

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.