

Abdullah Saleh

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EDUCATION

CUNY Hunter College

Bachelor of Arts in Computer Science | Yalow Honors Scholar

Manhattan, NY

August 2020 - December 2024

- **Relevant Courses:** Data Structures & Algorithms, Database Management, Data Science, Object Oriented Programming, Computing Theory, Computer Architecture, Operating Systems, Robot Operating System, Discrete Mathematics, Proofs-based Linear Algebra

EXPERIENCE

Quarter

New York City, NY

Founding Engineer

October 2022 – Present

- Cofounded an iOS, Android, and web application with 1000+ downloads that allows homeowners and businesses to rent out underused driveways and garages, connecting drivers in congested areas to accessible short- and long-term parking
- Led a dynamic team of four engineers, driving agile development and establishing CI/CD pipelines using automated testing, GitHub Action workflows, and Docker to ensure high-quality, rapid deployments
- Developed a robust rental and payment system with Django, Firebase, and Stripe processing \$20,000+ in real user transactions
- Ranked in the top 10% of applications and recognized as a top 5% founder for the competitive Y Combinator Winter 2023 batch

Course Hero

Redwood City, CA

Full Stack Software Engineering Intern

June 2023 – August 2023

- Drove backend and frontend updates to Course Hero's payment systems on the Monetization and Payments Infrastructure Team, partnering with engineers and designers to launch new services and modernize components
- Implemented 10+ payment and user account endpoints in a PHP/Symfony-based monolithic codebase and thoroughly documented them in backend architecture reviews
- Migrated two webpages to React, Typescript, and Server-Side Includes (SSI) following a presentation and fragments model to increase user engagement by a combined 30%

Course Hero & CodePath

New York City, NY

Software Engineering Intern

June 2022 – August 2022

- Led project sprints by structuring group milestones, managing individual assignments, and maintaining collaboration in an agile environment to create fully functional applications
- Designed and developed a capstone project using the PERN stack (PostgreSQL, Express, React, and Node) that was demoed to an audience of interns, alumni, and CourseHero employees, earning the "The Most Impactful Project" award
- Connected with industry professionals in all sectors through Tech Taste workshops, group mentor sessions, and one on one meetings to become familiar with different technologies and methodologies

PROJECTS

Unimatch RAG Application | *Pinecone, LangChain, Beautiful Soup, Python, NextJS*

- Developed a Retrieval-Augmented Generation (RAG) application that leverages OpenAI's embedding and completion models to generate tailored responses about universities
- Engineered a chat interface using NextJS and Python, where user queries are transformed into vector representations and matched against a Pinecone-powered database of university reviews
- Designed the system to deliver detailed, personalized university recommendations with a friendly conversational tone, while handling out-of-scope queries

Bucket Hero Web Application (Codepath Capstone 1st Place) | *React, SQL, Express*

- Created a tool that allows college students to plan, organize, and share bucket list items encouraging them to get out of their social bubble
- Structured a backend that supports multi-user interaction using Express API, relational databases in SQL, and JSON Web Token (JWT)-based authentication, paired with a responsive frontend built in React and Tailwind CSS

TECHNICAL SKILLS

Programming: Python · C++ · JavaScript · React · React Native · Typescript · Bash · PHP · Swift · Golang · HTML · CSS

Software: Google Cloud Platform · AWS · Firebase · Git · Linux · GitHub Actions · Docker · Pinecone · Xcode · Jira · Jest · Figma