

Hasan Alqassab

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EDUCATION

Columbia University

Expected Graduation: May 2025

Bachelor of Science in Computer Science

GPA: 3.8/4.0

Awards/Honors: Crown Prince International Scholarship Recipient (selected as one of three students awarded a full-ride university scholarship), Bahrain Math Olympiad Gold, Dean's List.

Relevant Coursework: Distributed Systems, Machine Learning, Natural Language Processing, Artificial Intelligence, Data Analytics, Blockchain Development, Parallel Functional Programming, Advanced Programming, Introduction to Databases.

PROFESSIONAL EXPERIENCE

Flipp Tickets

New York, NY

Co-Founder

August 2024 – Present

- Building blockchain-based live event ticket exchange payment system, solving for ticket scalping and scams.
- Received \$3000 stipend from National Science Foundation from Start Me Up Bootcamp.
- Deployed application on Base with integrated USDC payments and connection to Google and Ticketmaster APIs.
- Advised by A16z Crypto Head of Research [Tim Roughgarden](#) and Microsoft Head of Blockchain [Yorke Rhodes](#).

BlockApps

New York, NY

Blockchain Engineering Intern

June 2024 – August 2024

- Built compiler features for an in-house smart contract language using Haskell, resolving critical node crash bugs and improving Layer 1 blockchain reliability and usability.
- Enhanced the Blockchain Indexer for array tables using Haskell, reducing the number of database queries by 50%.
- Deployed and tested Solidity smart contracts to enable secure and transparent transactions for a Real World Assets (RWA) marketplace, ensuring compliance with blockchain standards.

Columbia University Steingart Lab

New York, NY

Software Engineering Intern

May 2023 – August 2023

- Built full-stack software infrastructure for ultrasonic battery characterization methods using Node.js and Flask.
- Developed robust Python and C++ APIs to enable researchers to remotely operate lab equipment and stream real-time data through a user-friendly interface, significantly improving operational efficiency by 70%.

PROJECTS

Stock Trading Simulator

January 2022 - May 2022

Technologies: *HTML, CSS, JavaScript, Node.js, Python, Flask, MySQL*

- Developed a web-based platform simulating real-world stock trading operations, including buying, selling, and portfolio management.
- Designed a dynamic user interface to provide an intuitive experience for users to practice trading strategies and understand market trends.

COMMUNITY INVOLVEMENT

COMSW4701: Artificial Intelligence, Columbia University

New York, NY

Teaching Assistant

September 2024 - Present

- Conducted recitations, held office hours, and graded problem sets and exams.

SKILLS

- **Programming Languages:** (Most Experienced) Python, Java, JavaScript, Solidity, (Some Experience) Golang, C/C++, Haskell.
- **Tools and Frameworks:** MySQL, MongoDB, PostgreSQL, AWS, Docker, Flask, Node.js, React, Pandas, scikit-learn, TensorFlow, Keras, git, Linux/Unix, Bash.
- **Languages:** English (Bilingual Proficiency), Arabic (Native).