

Yaacob Abdullah

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EDUCATION

CUNY Queens College

Bachelor of Science in Computer Science

New York, NY

May 2025

Shanghai University

Chinese Language and Culture

Shanghai, China

Summer 2025

Relevant Courses: Data Structures and Algorithms, Object-Oriented Programming, Internet and Web Technologies

TECHNICAL EXPERIENCE

Reem Construction Corporation

New York, NY

Software Engineer - (*React, Node.js, tailwind.css, MongoDB*)

September 2024 - Present

- Delivered a web platform supporting 30+ active clients for multimillion-dollar development projects and collaborated with executives and PMs to deploy software design aligned with company vision and values.
- Built client-facing applications in **React**, **Tailwind**, and **Radix UI**, connecting the frontend to a **MongoDB** database containing project catalogs.
- Owned lifecycle of features from architecture to deployment, managing Turbify infrastructure and email authentication to ensure a stable production environment.

Truebird

New York, NY

Software Engineer Intern - (*Node-RED, JavaScript, SQLite, React, Node.js, XState, MQTT*)

May 2024 - August 2024

- Developed a business intelligence dashboard processing life-time historical transactions, enabling real-time tracking of customer activity and engagement.
- Utilized **Node-RED** and the **MQTT** protocol to construct dynamic charts, tables, and summaries, allowing upper management to view internal data with a clear and intuitive dashboard interface, improving operational insights.
- Engineered frontend animations and implemented backend API's, using **React**, **Node.js**, and **XState**, filling team gaps and doubling deployment rate.

Open Avenues

New York, NY

Software Engineer Intern - (*QuickNode, Solidity, Node.js, ChainLink VRF, Chai, Hardhat*)

February 2024 - May 2024

- Spearheaded the development of a decentralized finance platform, utilizing **Solidity** smart contracts and **JavaScript** to enable secure, scalable, and high-performance blockchain transactions.
- Integrated **Ethereum nodes** for scalable blockchain data retrieval to facilitate real-time data interaction and smart contract deployment.
- Leveraged **ChainLink VRF** and the **SHA-256** hash to ensure random winner selection and data integrity, to facilitate secure Ether transactions, and to support commitment schemes.

CUNY Tech Prep

New York, NY

Data Science Fellow

August 2024 – May 2025

- Selected as one of **100** students from **600+** applicants for a data science fellowship, collaborating with peers from 11 senior colleges to create technical projects using Python, Jupyter Notebook, Scikit-learn, Pandas, and Numpy.
- Developed and deployed **predictive ML models** while mastering exploratory data analysis, feature engineering, statistical modeling, and machine learning techniques.

PROJECTS

FirstAidAI - (*Streamlit, LangChain, Gemini API, MongoDB Atlas, Hugging Face*)

May 2024

- Created an AI-powered medical assistant using **Streamlit** and **LangChain**, leveraging **Hugging Face** Transformers to classify wounds and detect medical equipment with 95% prediction accuracy.
- Engineered a Retrieval-Augmented Generation (RAG) pipeline with **Gemini API** and **MongoDB Atlas**, retrieving relevant medical advice.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS, Python, Java, C++, SQL, Solidity

Frameworks and Libraries: React, Node.js, XState, MQTT, Express.js, Tailwind.css, Next.js, Pandas, Numpy, Scikit-learn

Developer Tools: Git, VS Code, Visual Studio, Eclipse, Remix, Postman, Node-Red, Jupyter Notebooks, Docker