JOSH RABBANI

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Education

Duke University, Durham, NC Aug 2023 – May 2027

- GPA: 3.90/4.00
- Major: B.S. in Computer Science, concentration in AI/ML
- Relevant Courses: Design and Analysis of Algorithms, Intro to Artificial Intelligence, Data Structures & Algorithms, Discrete Math, Computer Architecture, Databases, Data Science, Probability for Statistics, Advanced Spanish Grammar, Linear Algebra

Skills

- **Programming**: Java, React.js, Next.js, Ruby, Ruby on Rails, PostgreSQL, Kotlin, Docker, HTML, C, Python, R for Data Science, Swift, MIPS Assembly, CSS, JavaScript
- **Spoken Languages**: Proficient in French and Spanish

Relevant Experience

Founder, Rippl – Student Ambassador Marketing Platform, NC / NYC Dec 2024 – Present

- Founded and lead a lean cross-functional team building Rippl, a full-stack platform connecting local businesses with student brand ambassadors to democratize campus marketing.
- Led product development, business partnerships, and growth strategy, expanding operations from Duke University to a public beta in NYC.
- Architected and developed the technical stack (Next.js, PostgreSQL, Swift), enabling user authentication, push notifications, chat, and automated ambassador-business matching.
- Implemented row-level security and real-time infrastructure, supporting scalable and secure user interactions across web and mobile platforms.

Director of Technology, Campus Enterprises, Durham, NC Mar 2024 – May 2025

- Led the development of an Android app (Kotlin) to manage and print meal orders for restaurants, enabling the operation of a food delivery service generating $120K+ annually.
- Developed web scraper to compile the incoming class's emails, enhancing cross-division collaboration and productivity.
- Implemented UI redesigns for the BlueTech website and other Campus Enterprises divisions.

Software Engineering Intern, Duke OIT, Durham, NC May – Aug 2024

- Built an insurance price navigation tool for veterans to find the lowest-cost diabetes medications.
- Designed and implemented the UI with Next.js and developed the backend with Ruby on Rails and PostgreSQL.
- Successfully delivered the project from concept to production within 10 weeks.

Projects (see more at jrab.dev)

Order Processing Application for Restaurants (Full Stack) June 2024 – May 2025

- Designed and developed a full-stack Android application to streamline meal order processing and receipt printing for local Durham restaurants in a $120K annual revenue business (GoBringIt).
- Implemented hardware integration with LAN-based receipt printing using Star Micronics' StarXpand SDK for asynchronous printing operations, with Bluetooth and USB printing options.
- Built with Kotlin, utilizing dynamic fragment management and an accessible, minimalistic UI.

Insurance Price Navigation Tool for Veterans (Full Stack) May – Aug 2024

- Developed and deployed a web tool within 10 weeks to help 1.2 million veterans navigate insurance options to find the lowest-cost diabetes medications, sponsored by Microsoft and the U.S. Department of Veterans Affairs.
- Wireframed and developed a single-page questionnaire using atomic design components for scalability and accessibility.
- Cleaned 40GB of insurance data to under 500MB and created API endpoints with Ruby on Rails and PostgreSQL to ensure efficient data management and robust API interactions.