Baraq Lipshitz

New York, NY

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Education

NEW YORK UNIVERSITY New York, NY   New York, NY
B.S. in Computer Science. GPA 3.99/4.0   September 2021 - May 2024
Data Structures & Algorithms (Python), Object Oriented Programming (C++), Design & Implementation of Programming Languages (Haskell, Prolog, Forth), Computer Architecture (MIPS, x86), Linear Algebra, Data Analysis, Project Management, Marketing, Discrete Math, Calc 2, Physics (Mechanics)

STANFORD UNIVERSITY   Palo Alto, CA
Business and Innovation Summer Intensive Studies. GPA 4.0/4.0   May 2020 - September 2020
Relevant Coursework: Entrepreneurship, Symbolic Systems

Skills

Technical: C++, Python, SQL, Swift, Java, Haskell, JavaScript, React.js, SwiftUI, .NET, C#, React Native, Prolog, MIPS Assembly, x86 Assembly, Verilog, Forth, Next.js, CSS
Tools: Google Cloud Platform, Argo, Kubernetes, Git, K6, Dynatrace, Coralogix, Microsoft Azure DevOps, Google Firebase, MongoDB, MSSQL Database Server, Jira
Languages: English (Fluent), Hebrew (Fluent)

Experience

FORBES MEDIA   New York, NY
Technology Operations Intern (Paid)   June 2023 - August 2023
- Optimize and maintain Forbes platforms for vital big data analysis, AI, backend services.
- Key contributor to full stack development of DevOps portal. Building in-house monitoring, reducing external SaaS costs.

PAYONEER   New York, NY
Backend Software Engineer Intern (Paid)   June 2022 - September 2023
- Built & documented service in .NET, C#, & MSSQL, speeding dozens of APIs by ~736% w/ load balancing techniques
- Analyzed APIs in production to fix errors, find bottlenecks, and load test with Dynatrace, Coralogix, & k6
- Collaborated with and learned from a team of eight experienced developers, doing Agile/Scrum using Azure DevOps
- Discovered bug leading to recovery of $4,100 in lost fees and projected $2,000/year fees saved for the company

LIGHTNING TECH   Marin, CA
Founder of Technology Consultation Business   September 2017 – Present
- Generated ~$30,000 revenue and served 200+ customers providing tech consulting for individuals & small businesses
- Provided web dev & design services for eight local businesses, using SEO and dark pattern strategies
- Provided free computers/internet and lessons to economically disadvantaged immigrants for English skills development
- Taught seniors computer skills to enable communication with family during coronavirus pandemic
- Wrote powerful advertisements to build a name-brand and gained an excellent reputation through word-of-mouth

Projects

FITME: Fashion social media and ecommerce platform, server-connected iOS application (as seen on website baraql.github.io)
- Taught self Swift and UI/UX design to write 11,171 lines of Swift for iOS application and design interface
- Architected cloud back-end and predictive algorithm, media storage, & authentication in Node.js & Firebase
- Developed instant enriched direct messaging with a group chat feature
- Created business plan, performed market research w/ design thinking & surveys, collaborating with team of 3

NYC AT A GLANCE: Raspberry Pi powered morning display showing Subway information for the nearest train stop and an hourly weather forecast. Built with Python, the MTA API, and the tomorrow.io API. Open source.
https://github.com/baraql/NYCAtAGlance

Awards: SAT 1560/1600 (99.5[th] percentile); $1000 "Best Mobile/Web App" Marin Hack4Health 2017; Dean's List all semesters
Hobbies: Taekwondo (featured in newspaper twice), CPR Certified, Wrestling, MMA, Certified Scuba Diver, Sailing, Skiing