Suraj Ramchandran

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EDUCATION

Northeastern University **Sep 2021 – May 2025**
Bachelor of Science in Computer Science, GPA: 3.8 / 4.0 Boston, MA

Relevant Coursework: Machine Learning, Object-Oriented Design, Networks and Distributed Systems, Operating Systems, Natural Language Processing, Database Design, Accelerated Fundamentals of CS I and II
Teaching Assistant: Discrete Structures

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, Rust, SQL
Frameworks: React, Django, NextJS, Express, Prisma, Pandas, NumPy, TensorFlow, LangChain
Tools: MySQL, AWS, Docker, Firebase, Git, Linux Shell, Jupyter, Google Cloud

EXPERIENCE

Instawork **Jul. 2023 – Dec. 2023**
Software Engineer Intern Boston, MA

- **Improved shift quality outcomes by 25%** by building a novel LLM-enabled, shift instruction quiz flow using LangChain, Django Forms and Hyperview: an internal server-driven mobile UI framework
- Launched a pre-booking candidate screening flow using the Checkr API to **drive 30% more sales** in the healthcare segment in a Django backend and Hyperview mobile frontend
- Architected and built a robust data pipeline in Python, that interfaced with a MySQL database, to consolidate and export user, shift, and payment data for legal subpoena requests, **saving 2+ hours** per user export
- Built a video upload feature to streamline automatic skill assessment for culinary positions using Amazon S3 for file storage and React-Native for native file pickers for iOS and Android
- Upgraded **5+ React-Native mobile screens** from legacy Bootstrap styling to custom, reusable components, improving code maintainability and reducing technical debt

Sandbox at Northeastern University **Sep. 2022 – Present**
Project Lead & Software Developer Boston, MA

- Led a group of 5 developers to successfully build and deliver a full-stack application to collect, aggregate and present faculty involvement data for **100+ faculty members** using NextJS, Prisma and PostgreSQL
- Spearheaded a rewrite from React and Nest to NextJS to increase code maintainability and consequently **increased developer velocity by 1.5x**
- Designed and implemented **20+ REST API endpoints** as serverless functions to read, add and update faculty data
- Built a backend user authentication service using Google Sign-In and JWT to protect endpoints across **4 user levels**

PROJECTS

University Recreation Tracker **Dec 2022**

- Constructed a NoSQL database containing **80,000+ rows** by web scraping the recreation website using a scheduled Javascript web scraper deployed on Cloud Functions
- Created graphs to show daily and weekly usage trends for **5** on-campus gyms using React and ReCharts to determine the optimal times to visit a crowded university gym

Siglo - Reinvent your input. **Feb 2022**

- **Won "Most Technically Challenging" product at HackBeanpot 2022**
- Made computing more accessible by creating a gesture-based software input device in Python and OpenCV
- Utilized a convolutional neural network to extract **20+ hand landmarks** from a video stream and designed a classifier to send virtual keystrokes based on hand position

INTERESTS

Traveling, Algorithm auditing, Weightlifting, Photography, Real estate