

Suraj Ramchandran

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LinkedIn: surajramchandran | GitHub: Suraj-Ram | surajramchandran.com | Availability: May – December 2023

EDUCATION

Northeastern University

Khoury College of Computer Sciences

Candidate for Bachelor of Science in Computer Science, GPA: 3.8 / 4.0

Sep 2021 – Present

Expected Graduation: May 2025

Boston, MA

Relevant Coursework: Machine Learning 1, Networks, Object-oriented Design, Algorithms, Linear Algebra, Database Design, Computer Systems, Mathematics of Data Models, Accelerated Fundamentals of CS I and II

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, TypeScript, SQL, HTML, CSS

Frameworks: React, NestJS, NodeJS, Express, TailwindCSS, Prisma

Tools: Firebase, Git, Linux Shell, Docker, JUnit 4, PostgreSQL, Google Cloud

EXPERIENCE

Sandbox at Northeastern University

Software Developer

Sep 2022 – Present

Boston, MA

- Developed a full stack web app for a university professor and the merit committee they lead using TypeScript
- Designed and implemented **20+** REST API endpoints to perform CRUD operations on a Postgres relational database
- Implemented user authentication using JSON Web Tokens and Passport to protect endpoints across **4** user levels
- Collaborated with developers for backend design decisions and code reviews to ensure efficient operation and consistent style

Northeastern University

Discrete Structures Teaching Assistant

Sep 2022 – Dec 2022

Boston, MA

- Conducted **6+** office hours a week to facilitate learning and coached students develop a deeper understanding of discrete mathematics concepts such as logic, combinatorics, and probability
- Graded weekly homeworks and exams for a **750+** student cohort and provided personalized feedback

TAMID Group at Northeastern University

Software Developer – Technology Consulting

Sep 2021 – May 2022

Boston, MA

- Engineered a web app using React and Firebase for a startup that automated the Secret Santa matching process
- Spearheaded good database design in weekly meetings to ensure efficient operation and low cloud cost
- Peer programmed k-means clustering algorithms, that ran as independent and scalable Javascript Cloud Functions, to group users based on multiple common interests

PROJECTS

Siglo - (Won “most tech. challenging” product at HackBeanpot 2022)

Feb 2022

- Created a software input device, in a team of 5, that used hand gestures to control the keyboard to make computing more accessible
- Wrote custom logic to send keystrokes based on hand positions determined via OpenCV and a pre-trained neural network

University Recreation Tracker

Dec 2022

- Constructed a NoSQL database containing **15,000+** rows by web scraping the recreation website using a scheduled Javascript web scraper
- 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

INTERESTS

Traveling, Photography, Weightlifting, Deep learning, Real estate