

Suraj Ramchandran

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LinkedIn: surajramchandran | GitHub: Suraj-Ram | surajramchandran.com | Availability: May – December 2024

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, Object-oriented Design, Networks and Distributed Systems, Operating Systems, Linear Algebra, Database Design, Accelerated Fundamentals of CS I and II

Teaching Assistant: Discrete Structures

TECHNICAL SKILLS

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

Frameworks: React, NestJS, NodeJS, Express, Pandas, NumPy, TensorFlow, TailwindCSS, Prisma

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

EXPERIENCE

Instawork - Incoming Software Engineer Intern

July 2023

Sandbox at Northeastern University

Boston, MA

Project Lead

Jan 2023 – Present

- Led a group of **5** developers and **2** designers to build a full-stack web application that aided in performance reviews for a Northeastern professor and their merit committee
- Spearheaded a rewrite from React and NestJS to NextJS to increase code maintainability and consequently increased developer velocity by **1.5x**
- Created **15+** agile tickets to prioritize and effectively distribute development and design tasks

Software Developer

Sep 2022 – Present

- 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 and code reviews to ensure efficient operation and consistent style

TAMID Group at Northeastern University

Sep 2021 – May 2022

Software Developer – Technology Consulting

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, on Cloud Functions, to group users based on common interests

PROJECTS

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

Feb 2022

- Created a software input device that used hand gestures to control the keyboard to make computing more accessible
- Wrote a custom classifier in Python 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 **30,000+** 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