

# 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 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:** Python, Java, JavaScript, TypeScript, SQL

**Frameworks:** React, NextJS, Express, Prisma, Pandas, NumPy, TensorFlow

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

## EXPERIENCE

### Instawork

Jul. 2023 – Present

Software Engineer Intern

Boston, MA

- Implementing a health screening feature to **drive 30% more sales volume** in the healthcare segment in a Python/Django backend
- Migrating React Native mobile frontends 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 build a full-stack application, for a Arts merit committee, to collect, aggregate and present faculty involvement data for **100+ faculty members** using NextJS, Prisma and PostgreSQL
- Spearheaded a rewrite from React and NestJS 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**
- Created and delegated **20+** agile tickets to prioritize and effectively distribute development and design tasks

### TAMID Group at Northeastern University

Sep 2021 – May 2022

Software Developer – Technology Consulting

Boston, MA

- Shipped a web app using React and Firebase for a startup that automated the Secret Santa matching process
- Spearheaded intelligent schema design in weekly meetings to ensure **efficient database operation** and low cloud cost
- Implemented **k-means clustering algorithms** on Cloud Functions to group users based on common interests

## PROJECTS

### University Recreation Tracker

Dec 2022

- Constructed a NoSQL database containing **50,000+ 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, Weightlifting, Photography, Real estate