

Suraj Ramchandran

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EDUCATION

Northeastern University, Khoury College of Computer Sciences

Boston, MA

Candidate for a Bachelor of Science Degree in Computer Science

August 2021 - Present

- Relevant Coursework: Object-oriented Design, Algorithms and Data, Mathematics of Data Models, Accelerated Fundamentals of CS I and II, Discrete Structures
- GPA: 3.85 / 4.00 - Dean's List

GEMS World Academy Dubai

Dubai, U.A.E.

Grades 10 - 12

September 2018 - May 2021

- Salutorian - graduated with a 43/45 IB score
- Activities: GWA Math Team (won 2nd place globally) & Model UN Executive Board

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Java HTML, CSS, Racket

Frameworks/Tools: Git/GitHub, React, Node.js, Express, Firebase, TailwindCSS, TensorFlow 2

ACHIEVEMENTS

Won the "Most Technically Challenging" product award at HackBeanpot 2022

February 2022

- Developed a Python script, with a group of 4, that allowed users to interact with a computer using hand gestures
- Wrote a prediction algorithm, which used data captured through an OpenCV webcam feed and a pre-trained MediaPipe neural network, that emulated keystrokes to scroll horizontally and vertically and use the arrow keys

RELEVANT EXPERIENCE

Sandbox at Northeastern University

Boston, MA

Software Developer

September 2022 - Present

- Developed a full-stack web application for a Northeastern CAMD professor used for internal performance reviews
- Created REST API routes in a Nest.js backend to fetch user and activity data from a Postgres relational database

Khoury College of Computer Sciences

Boston, MA

Discrete Structures (CS1800) Teaching Assistant

September 2022 - Present

- Held 2-hour office hours twice a week to assist students with a wide range of questions and clarifications, and helped them develop a deeper understanding of discrete mathematics concepts such as logic and combinatorics
- Graded weekly homeworks and exams for a 750+ student cohort and updated professors on student performance

TAMID Group at Northeastern University

Boston, MA

Backend Software Developer

January 2022 - May 2022

- Engineered an end-to-end gift giving online platform for a New York-based startup using React and Firebase
- Developed and tested k-means clustering algorithms on to group users based on common interest with a team of 4
- Had weekly meetings with my development pod to discuss backend design ideas and potential inefficiencies

Education Member

September 2021 - December 2021

- Developed a stock pitch presentation, with a group of 4 to consolidate a BUY recommendation for "TJX Companies" through fundamental company analysis and industry projections

Oasis at Northeastern University

Boston, MA

Software Developer

September 2021 - May 2022

- Pair-programmed a single player mobile game, using React Native, that gamified stock, options, and crypto trading
- Developed a note-taking web app that transcribed spoken notes using a client-side Javascript text-to-speech algorithm

ONLINE COURSE and CERTIFICATIONS

J.P. Morgan Chase & Co.

May 2021

Software Engineering Virtual Experience Program

- Engineered a web application to serve simulated time series stock data to traders using a Python and Flask
- Used a JP Morgan specific frontend PivotTable library to aggregate, filter and visualize time series data

Introduction to TensorFlow for AI, Machine Learning and Deep Learning ([deeplearning.ai](https://www.deeplearning.ai))

May 2019

LANGUAGES and INTERESTS

Spoken Languages: English (fluent), Tamil (conversational), Hindi (intermediate)

Interests: Traveling, Photography, Working out