Mitesh Kumar

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EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE
B.S. Computer Science
Aug 2018 | May 2022 (expected)
GPA: 3.96

LINKS

Github:// **miteshkumar77**
LinkedIn:// **-miteshkumar**
Homepage:// **miteshkumar77**

COURSEWORK

Data Structures
Introduction to Algorithms
Probability and Statistics
Principles of Software
Foundations of Computer Science
Computer and Component Operations
Embedded Control
Signals and Systems
Introduction to Electronics

SKILLS

PROGRAMMING
C++ • C • Java • Python • Javascript
Reactjs • Node.js • GraphQL • CSS
MongoDB • MATLAB • Linux • HTML
Express.js

IN PROGRESS

DYNAMIC PROGRAMMING VISUALIZER
• Developed a ReactJS web application to visualize bottom-up dynamic programming algorithms. • Currently working on server code execution so that the user can visualize their own algorithms.

EXPERIENCE

SRC INC. | Electrical Engineering Intern
May 2020 - Present | Syracuse, NY

- Developed a Python application for parsing and visualizing a large human entered dataset that helped members of the Electronic Warfare division set thresholds in their equipment testing procedure.

ECSE 2410 SIGNALS AND SYSTEMS | Teaching Assistant
Jan 2020 - May 2020 | Troy, NY

- Worked with a class of 200+ students.
- Held office hours and lectures where I answered questions and solved problems in front of the class.

PROJECTS

PILL REMINDER | NodeJS, GraphQL, MongoDB, ReactJS, ExpressJS
May 2020
github.com/miteshkumar77/pill_dispenser
Developed a full stack web application that helps users track their medication intake and helps them to remember to take their medications at the correct time by sending push notifications to their mobile devices.

TAXI FARE PREDICTOR | Python, Keras, Matplotlib, Pandas
December 2019
github.com/miteshkumar77/taxi-fare-predictor
Built a network regression model to predict taxi fares given a user inputted start and end location in New York City, within a dollar of large trips, and within 10 cents of small trips, and accounting for special conditions like airport departures.

RESEARCH

TETHERLESS WORLD CONSTELLATION | Researcher
Jan 2020 – May 2020 | Troy, NY
Implemented the Tetherless World Knowledge Store (Graph Database) API using the HDT Binary serialization libary to allow for increased compression of data. Allowed for more data to be stored in memory as opposed to disk, resulting in significantly faster query times.
Developed several parsers in Python to convert large FCC datasets into RDF turtle, to allow them to be processed by the Tetherless World Knowledge Store API.

AWARDS

2020	$107^{th}/1217$	HackerRank Online Programming Competition
2020	$130^{th}/2251$	Binarysearch.io Online Programming Competition
2020	$1^{st}/50$	Coursewide Line Follower bot competition
2020	$5^{th}/100$	Principles of Software course ranking