Mitesh Kumar

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Education

Rensselaer Polytechnic Institute
Troy, NY   August 2018 – May 2022 (expected)
B.S. Computer Science, Computer Engineering   GPA: 3.96

Projects

FB Chess | A live database backed web chat application with support for chat rooms and chess gameplay.
June 2020 – July 2020 https://github.com/miteshkumar77/fbchess
Technologies**:** TypeScript, node.js, MongoDB, Express, Socket.IO, react, Docker

Pill Reminder | A database driven web application that helps users track their medication intake and sends push notification reminders when they have scheduled to take a certain medication.
April 2020 – May 2020 https://github.com/miteshkumar77/pill_dispenser/tree/master/application
Technologies**:** node.js, GraphQL, MongoDB, react, Express

Experience

Western Digital   September 2020
Incoming Firmware Engineering Intern   Longmont, CO

Wumpus World AI Simulator   May 2020 – Current
- Collaborated with a group of students to develop a simulation environment where students can test their AI solver that they have written for the renowned Wumpus World artificial intelligence puzzle.
- Wrote a C++ command-line interfaced application to send and receive signals from the student's AI

SRC   May 2020 – August 2020
Electrical Engineering Intern   Syracuse, NY
- Developed a Python application for parsing and visualizing a large dataset, that helped members of the Electronic Warfare division set thresholds in their equipment testing procedure.
- Matplotlib and Tkinter libraries were used.

Tetherless World Constellation   January 2020 – May 2020
Researcher
- Wrote an Adapter Java Class to implement the Tetherless World Knowledge Store (Graph Database) API using the HDT Binary serialization library to allow for higher data compression and faster query times.
- Developed several data parsers in Python to convert large FCC datasets into RDF turtle, to allow them to be processed by the Tetherless World Knowledge Store API.

Skills

Languages: C++, C, JavaScript, TypeScript, Java, Python, MATLAB
App Development: react, node.js, GraphQL, HTML, CSS, MongoDB, Express, Docker, Linux, Socket.IO, Design Patterns
Machine Learning: Keras, Pandas, NumPy, Regression Model Classifiers
Embedded Programming: Control systems, Arduino, Raspberry Pi

Awards

2020 470th/15K LeetCode Weekly Programming Contest average ranking
2020 27th/900   Hackerrank Online Programming Competition
2020 1st/55   Course wide Line Follower bot competition
2020 5th/105   CSCI – 2600 Principles of Software course ranking