Mitesh Kumar

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(908) – 727 – 2351   **My Website:** https://miteshkumar77.github.io/homepage/

Education

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

Personal Projects

CUDA Image Processing | Implemented edge detection image processing algorithms and parallelized them using CUDA.
September 2020 https://github.com/miteshkumar77/cuda_image_processing

FB Chess | A real-time multiplayer chess platform with cache optimized database transactions.
June 2020 – July 2020 https://github.com/miteshkumar77/fbchess
Technologies**:** TypeScript, node.js, MongoDB, Express, Socket.IO, react, Docker

Pill Reminder | A database backed medication management web app with support for notification reminders.
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 - Present
Firmware Engineering Intern   Longmont, CO

JPMorgan Chase Code for Good Hackathon   September 2020
- Coordinated with 5 other students to build a fully functioning full stack web application to promote a college
- Implemented a MongoDB REST API to allow official students to submit their own comments about the school.
- Built an administrative page that would allow the owner to allow certain reviews to be displayed on the site.
- Developed several front-end components in order to make the site interactive and aesthetic

Wumpus World AI Simulator   May 2020 – September 2020
- Collaborated with a group of students to develop a simulation environment where students can test their AI implementation
- Wrote a C++ command-line interfaced application to send and receive signals from the student's AI
- Followed Observer design pattern and wrote documentation to improve communication between back-end and front-end efforts

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
- 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

Awards

2020	200 Participants	JPMorgan Chase© Code for Good invite only Hackathon participant
2020	88th/2567	Hackerrank Career Fair Programming Contest
2020	470th/15K	LeetCode Weekly Programming Contest average ranking
2020	8th/900	Hackerrank Online Programming Competition