

Sukhmai Kapur

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Education

Georgia Institute of Technology | BS May 2021 | MS May 2022

Degree: B.S. in Computer Science, College of Computing

Concentrations: Intelligence / Systems-Architecture

GPA: 3.92/ 4.00

Coursework: Design and Analysis of Algorithms,
Operating Systems, Object-Oriented Programming,
Natural Language Processing, Systems and Networks

Experience

Mathworks | Software Engineering Intern

May 2020 – Aug 2020

- Developed viewer for Simulink buses and signals, allowing users to view signals as a tree
- Dynamically displayed signal attributes by querying MATLAB backend, utilizing Publish/Subscribe paradigm
- Built viewer using Dojo's custom UI framework alongside native Mathworks components
- Wrote performance and unit tests for viewer/tree generation algorithm using Qunit and MATLAB

Atlanta Maproom Project | Software Developer

Sep 2019 – May 2020

- Developed a web-based data visualization tool designed to encourage the community-driven creation of maps
- Created automated upload portal for community members to upload custom maps
- Collaborated with City of Savannah officials to display the effects of various flood levels

Bits of Good | Engineering Manager

Jan 2019 – Present

- Managed various teams of developers and designers to create full-stack web applications for non-profits
- Conducted code reviews and created tasks for bi-weekly sprints, following Agile methodologies
- Planned codebase architecture, and made design decisions on tools/frameworks

Projects

Miqueas: Inventory Management Solution

Jan 2020 – May 2020

- Built platform for volunteers at Honduran orphanage to manage their inventory
- Allowed users to log transactions, update inventory stocks and create new item profiles
- Utilized React.js, Next.js, and MongoDB to create a Progressive Web App designed for mobile devices
- Assigned tasks and performed code reviews to insure the product met client specifications

Tutoring System: Intelligent Review System

Jan 2019 – May 2020

- Created an interactive system for students and teachers to review performance on homework
- Used React.js, Flask and SQL to create data visualizations of each student's progress
- Optimized database query speeds with a caching algorithm, increasing the speeds of all visualizations

Skills

Programming Languages: JavaScript • Java • Python • C • MATLAB

Technologies / Frameworks: Node.js • Express.js • React.js • MongoDB • Git

Operating Systems: Linux • Windows