Sukhmai Kapur

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Education

Georgia Institute of Technology | Dec 2021

Degree: B.S. in Computer Science, College of Computing
Concentrations: Intelligence / Systems-Architecture
GPA: 3.94/ 4.00

Coursework: Design and Analysis of Algorithms, Operating Systems, Object-Oriented Programming, Machine Learning, 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