

Vikram Singh

Super Duper Cool Software Engineer Guy

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EDUCATION

University of Massachusetts Amherst

- B.S. in Computer Science, Mathematics. GPA: 3.92/4.0.
 - Dean's List, Chancellor's Award

Expected in May 2023

TECHNICAL SKILLS

- Swift, Java, Python, C, C#, MATLAB, HTML, CSS, JavaScript, React.
- Xcode, Android Studio, Figma, Eclipse, VS Code, Linux/Unix, GitHub, Microsoft Office, Miro, Jira.

WORK EXPERIENCE

Liberty Mutual Insurance, User Experience/Software Engineer Intern

May 2021 – August 2021

- Designed and built a customizable and technology agnostic list component for a company design system (FLUID) that developers use in over 40 applications. This involved working on an Agile centric team, using UX design principles and tools, and front-end skills (StencilJS, JavaScript, TypeScript, JSX, HTML, CSS, Less, React).
- Pioneered the GRS Insurance Ecosystem Map to aid business executives with resource allocation and pain point analysis by conducting user interviews with various employees, interpreting/analyzing personas, and conducting + compiling research from internal information sources.
- Created user-centered, low to high-fidelity mockups, wireframes, and prototypes with Balsamiq, Figma, and Sketch with a focus on usability and accessibility.

BUILD UMass, President + Technical Lead

September 2020 - Current

- Built and implemented a D3.js Data Visualization component (Zoomable Circle Packing) into a React web application that helps manage, navigate, and visualize data around organizations (and their properties). Developed an algorithm that structures and formats unordered back-end data into organized, hierarchical data to be used on the front-end.
- Implemented structural changes to the organization in order to create a better sense of community among our teams, create better documentation and workflow habits and deliver better results to clients.
- Managing and advising Technical Leads, Software Developers, and Business Developers across 13 projects (about 70 people total) to make sure that each team is following an Agile centric workflow, conducting code reviews, developing documentation, and delivering high quality code (and other deliverables) to clients.

Freelance, iOS Software Developer

April 2020 - October 2020

- Worked with Swift and Xcode debugging tools to modify existing software, correct programming errors, and improve time and space complexity for clients' applications.
- Leveraged database technologies such as SQLite, Core Data, Realm (and Realm Sync), and Firebase to allow applications to store data both locally and in the cloud.
- Developed complex algorithms to accomplish clients' tasks - such as analyzing user goals and health data to plan and construct a science-based workout and diet program.

FEATURED PROJECTS

Studium - Time Management (iOS Application)

(2020 - Current)

- Utilizes the MVC design pattern to allow students to track assignments, courses, and healthy habits, saving over 1 hour/week of scheduling on average. Xcode, Swift, UIKit, Realm, Cocoapods.
- Utilizes Algorithms to automatically analyze and schedule events around courses and assignments, thereby aiding over 100 students by providing impactful tools for time management and organization.

PullUp - Study Groups (iOS Application)

- Winner of HackUMass IX's Best Mobile Application and Best use of Google Cloud! Published - Apple's app store
- Utilizes the MVC design pattern to provide UMass students with a platform to find collaborative study groups and sessions for courses while also ensuring privacy and security (uses Firebase's dynamic links system for UMass email verification). Xcode, Swift, UIKit, MapKit, Firebase.