

Vikram Singh

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EDUCATION

University of Massachusetts Amherst

B.S. in Computer Science, Mathematical Computing. GPA: 3.93/4.0.

Expected May 2023

TECHNICAL SKILLS

- iOS SDK, Swift, Objective-C, Cocoa Touch, UIKit, SwiftUI, RxSwift, CoreData, XCTest, Protobuf, gRPC, MVVM/MVC.
- JavaScript, TypeScript, Express.js, React, Node.js, Jest, REST APIs, Java, C/C++, Python, HTML, CSS, NoSQL.
- Software/Tools: Xcode, Visual Studio Code, Postman, Linux/Unix, Git, Jira, Confluence, Figma.

WORK EXPERIENCE

Lyft, iOS Engineer Intern

May 2022 – August 2022

- Retained ~30,000 subscribers monthly by working within a large MVVM / Unidirectional Architecture codebase with Git, Xcode, Swift, RxSwift, gRPC, and Protobuf to develop a dynamic cancellation survey and user flow.
- Communicated with senior design, legal, and engineering teams to provide feedback, perform code reviews, write technical and design specifications to ensure consistency with legal, consumer, apple, and internal standards.
- Reduced app crashes by >3% by writing extensive UI, Snapshot, and Integration tests with XCTest and XCUITest.
- Contributed to product design, system design, and management conversations for various projects and tasks.

Liberty Mutual Insurance, Software Engineer Intern

May 2021 – August 2021

- Implemented a customizable and technology agnostic list design system component which is used in over 100 internal applications across the company with HTML, CSS, JavaScript, React, JSX, and StencilJS.
- Conducted user interviews, interpreted/analyzed personas, and compiled research from internal information sources to build an ecosystem map for resource allocation and pain point analysis.
- Designed low and high-fidelity mockups, wireframes, and prototypes with a focus on usability and accessibility.

UMass Mobile Development Club, Founder and President

May 2022 - Current

- Created an iOS centered curriculum for students to learn topics such as design patterns (MVC and MVVM), protocol-oriented programming, writing robust Swift code, writing tests using XCTest and XCUITest, and Git.
- Developed full stack mobile applications using Swift, UIKit, XCUITest as well as Express.js, Node.js, Jest.

BUILD UMass, President and Lead Software Engineer ([BUILD Website Link](#))

September 2020 - Current

- Developed documentation templates, slide shows, excel spreadsheets, and other assets to provide organized resources for our Technical Leads, Software Developers, and Business Developers (around 80 people total).
- Managed and advised tech leads across 8 projects to make sure that each team followed an Agile centric workflow and delivered high quality code (and other deliverables) to clients.
- Managed the recruiting process - processed, interviewed (behavioral and technical), and evaluated candidates.

FEATURED PROJECT

Studium - Time Management ([GitHub Link](#))

March 2020 - Current

- MVC iOS Application that utilizes Cocoapods, UIKit, Data Structures, and algorithms to allow students to track assignments, grades, courses, extracurriculars, and habits by providing interactive and accessible interfaces.
- Uses MongoDB Authentication and MongoDB Realm Sync (NoSQL) to safely / securely persist data in the cloud.
- 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 ([App Store Link](#))

November 2021 - Current

- Winner of HackUMass IX's Best Mobile Application and Best Use of Google Cloud (700+ participants)
- MVC iOS Application built with Swift, UIKit, MapKit, Google Cloud's Firebase to provide a platform for users to find and create location-based study groups.
- Uses Google Cloud Authentication and Dynamic Links to securely store user data and verify .edu emails.