

# Vihaan Phal

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## EDUCATION

### Arizona State University

Tempe, AZ

B.S. in Computer Science: 3.83/4.0

Aug. 2021 – May 2025

**Relevant Courses:** Object Oriented Programming, Discrete Math, Operating Systems, Principles of Programming Languages, Theoretical Computer Science, Data Structures/Algorithms, Introduction to iOS App Development, Distributed Software Development(.NET framework)

## TECHNICAL SKILLS

**Languages:** C/C++, C#, Java, HTML, CSS, JavaScript, Swift/SwiftUI, Python, MIPS

**Frameworks:** ReactJS, Node.js, Firebase, .NET, MongoDB, express,JWT , Socket.io

**Tools:** Jira, Git, GitHub, Astah, Figma, RestAPI's

## EXPERIENCE

### UGTA (FSE100 and CSE 335): Arizona State University

Aug 2023 – Present

- \* Facilitated learning of MATLAB in FSE100 and Swift in CSE335 for 50+ students, achieving a 95% proficiency rate in autonomous projects.
- \* Pioneered MapKit lab development for the iOS app development course, focusing on geolocation and geocoding to enhance practical skills.
- \* Spearheaded the organization of the Battle Bots event, resulting in a 40% increase in student engagement and practical engineering skill application.

### Front-End Developer Intern: Medical Directive

Aug 2022 – Dec 2022

- \* Engineered an advanced web application with ReactJS, achieving a 30% increase in client-side performance, streamlining the user experience with a contemporary and responsive interface.
- \* Spearheaded a cohesive UI/UX strategy with Figma and Canva, creating a visual mockup that translated to a 20% increase in user interface satisfaction and accessibility.
- \* Fortified backend infrastructure with Node.js and Firebase, amplifying server-side performance by 25% and securing real-time data services, underscoring commitment to robust and scalable full-stack development solutions.

## PROJECTS

### StockLearn | Mern Stack, React.js, Node.js, MongoDB, Tailwind CSS

Spring 2024

- Developed a comprehensive stock learning platform where users can invest dummy money(\$100,000) in stocks, facilitating simulated trading experiences.
- Implemented user authentication with MongoDB and JWT, ensuring secure user sessions and data privacy.
- Designed a responsive and user-friendly interface using Tailwind CSS, enhancing user engagement and accessibility.
- Ensured efficient data handling and real-time stock price updates with a robust backend architecture using Node.js and MongoDB and express.

### RestaurantFinder App | Swift/SwiftUI, Yelp API, Firebase, SwiftUI MapKit

Spring 2024

- Developed an iOS application using Swift and SwiftUI, allowing users to discover and track their favorite restaurants.
- Integrated Yelp API to provide users with access to a wide range of restaurants based on cuisine and location preferences.
- Implemented secure user authentication with Firebase, ensuring data privacy and user security.
- Used Firebase's Firestore for data management, enabling efficient storage and retrieval of user data.

### ASP.NET ChatBot WebApp | C#, ASP.NET, WCF, OpenAI API

December 2023

- Developed a custom WCF (Windows Communication Foundation) application in C to create a service wrapper for OpenAI's ChatGPT API, enhancing integration and functionality.
- Built an ASP.NET web application to consume the custom WCF service, enabling smooth interaction with the ChatGPT API.
- Supported up to 12,000 responses per month, providing exceptional user assistance and experience.