

Vihaan Phal

(602) 582-7320 | phal.vihaan@gmail.com | [linkedin.com/in/VihaanPhal](https://www.linkedin.com/in/VihaanPhal) | github.com/VihaanPhal | vihaanphal.vercel.app

EDUCATION

Arizona State University

Tempe, AZ

B.S. + M.S in Computer Science: 3.83/4.0

May 2026

Relevant Courses: Operating Systems, Theoretical Computer Science, Data Structures/Algorithms, Introduction to iOS App Development, Distributed Software Development (.NET framework), Introduction to Machine Learning, Software QA Testing, Introduction to Human Computer Interaction, Database Management

Honors: Dean's List every semester throughout the course length from Fall 2021 to date, recognizing consistent academic excellence and maintaining a high GPA.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, C#, HTML, CSS, JavaScript/TypeScript, Swift/SwiftUI, MIPS, MATLAB, SQL

Frameworks/Tools: ReactJS, Node.js, NextJS, .NET, Express, Jira, Git/GitHub, Figma, Vercel, Neon, MongoDB, PostgreSQL, scikit-learn, PyTorch, pandas, AWS, Docker

EXPERIENCE

Software Developer Intern: MusicalMoon Inc. | Toronto, Canada

Aug 2024 – Present

- Developed dynamic web pages using **Next.js** and designed interactive 3D elements powered by **Three.js**
- Integrated robust backend microservices utilizing **AWS** and **MongoDB**, delivering scalable and high-performance solutions for real-time data handling.
- Utilized **React.js**, **Next.js**, **TypeScript**, and **Git** for continuous collaboration and deployment while leveraging Docker to containerize libraries and dependencies.

UGTA (Intro to Engineering, iOS App Development) | Tempe, AZ

Aug 2023 – May 2024

- Facilitated learning of MATLAB in Introduction to Engineering (FSE100) and **SwiftUI** in iOS App Development (CSE335) for over 150 students, guiding them alongside my professor to successfully complete their projects.
- Developed the MapKit lab for the **iOS app development** course, focusing on **geolocation** and **geocoding** to elevate practical skills for a class of over 150 students.
- Spearheaded the organization of the **Battle Bots** event, with over 15 teams participating, enhancing student collaboration and practical engineering skills through hands-on competition.

Front-End Developer Intern: Medical Directive | Chandler, AZ

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 responsive interface.
- Led 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 **Firestore**, amplifying server-side performance by 25% and securing real-time data services, underscoring commitment to robust and scalable full-stack development solutions.

PROJECTS

InterviewMe.AI | Next.js, Node.js, Google Gemini, DrizzleORM, Neon, Vercel

July 2024

- Architected an **AI-driven** interview platform utilizing **Next.js** and **Node.js**, featuring mock interview sessions powered by **Google's Gemini Models**. The platform generates five AI-generated questions per session, providing real-time feedback on communication skills, technical expertise, and overall performance.
- Integrated **Text-to-Speech** capabilities and webcam support to create a realistic interview environment, enhancing the user's immersive experience and preparation.
- Implemented dynamic question generation and contextual analysis to simulate realistic interview scenarios, improving user readiness for actual interviews.
- Managed database operations with **DrizzleORM** and **Neon PostgreSQL**, ensuring efficient data handling and scalability.

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

January 2024

- Developed an **iOS application** using **Swift** and **SwiftUI**, enabling users to discover and track over 1,000 restaurants within a 10km radius.
- Integrated **Yelp API** to provide users with access to a diverse range of restaurants, filtered by over 50+ cuisine types and location preferences.
- Established secure user authentication and efficient data management using **Firebase** and **Firestore**, ensuring data privacy, user security, and data retrieval times under 200 milliseconds.