

Vihaan Phal

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EDUCATION

Arizona State University

Tempe, AZ

B.S in Computer Science: 3.86/4.0

May 2025

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

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, Grafana, Prometheus, Posthog, Jenkins, Angular, Flask

EXPERIENCE

Co-Founder: ConvoCoach.com | AI Interview Prep Application

August 2024 – Present

- Developed a sleek and efficient UI with **Next.js**, ensuring fast rendering and seamless cross-device functionality.
- Built a **Flask**-based back-end supporting hyper-optimized **Meta Llama 3.1** for text-to-speech, speech detection, and mock interview flow management.
- Integrated **Tavus**-powered AI avatars in **Daily.js** rooms for lifelike interview simulations, enhancing user engagement.
- Implemented secure payment processing using **Stripe** to support a scalable subscription model.

UGTA (Intro to Engineering and 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 to kickstart their career as engineers.

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 **Firebase**, 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.

StockLearn | ReactJS, MongoDB, Node.js, Firebase, JWT

July 2024

- Built an interactive **stock learning platform** using **ReactJS** where users can simulate investments, track portfolios, and learn about stock market behavior with dummy money.
- Used **MongoDB** for storing user data and transaction history, and implemented a robust authentication system using **JWT Tokens**.
- Utilized **Firebase** for real-time updates and notifications, ensuring smooth user experience while maintaining secure user sessions and data integrity.