

Ayush Sachin Wattamwar

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Education

Arizona State University

Bachelor of Science in Computer Science (Software Engineering), Minor in Business

Tempe, AZ

Expected May 2027

GPA: 4.0

Academic Recognition: Dean's List

Honors and Awards: New American University Scholarship (\$13,500 Annually)

Relevant Coursework: Data Structures & Algorithms; Object-Oriented Programming; Software Engineering; Mobile Application Development; Computer Organization & Assembly Language Programming

Leadership & Extracurricular: Active participant in **Grand Challenges Scholars Program**; Active contribution in **Engineering Projects in Community Service**

Experience

AI Developer Intern

05/24 – 08/24

A9I — *a9i.ai*

Mumbai, India

- Developed machine learning predictive model using **Python** to forecast animal sightings in jungle ecosystems for wildlife tourism client **Junglore**, analyzing historical wildlife data patterns and environmental factors.
- Engineered data pipeline processing seasonal patterns, weather conditions, and temporal data to train predictive algorithms, achieving accurate wildlife sighting forecasts for **Tadoba National Park, India**.
- Delivered scalable ML solution expanding from single-location deployment to multi-jungle implementation, enabling wildlife tourism operators to optimize safari experiences and conservation efforts.

Software Developer Intern

05/23 – 08/23

Junglore — *junglore.com*

Mumbai, India

- Developed cutting-edge web application using **React 18** and **Vite**, integrating **Three.js** and **@react-three/fiber** for immersive 3D wildlife experiences and interactive safari simulations.
- Architected responsive UI components with **Material-UI** and **Emotion CSS-in-JS**, implementing smooth scroll-triggered animations using **GSAP** for enhanced user engagement.
- Built performance-optimized web platform featuring AI-powered wildlife identification, 3D jeep animations, and cross-browser compatibility with mobile-first design approach.

Projects

Academic Review System (ARS) | Java, JavaFX, H2 Database, JUnit, CSS | GitHub

Spring 2025

- Built robust academic review platform with **role-based authentication** supporting 5+ user roles and secure password hashing for 1000+ users.
- Designed scalable **MVC architecture** with 4 specialized database helpers managing user accounts, reviews, and admin requests using **H2 embedded database**.
- Developed automated **reviewer scorecard system** with weighted algorithms across 4 parameters, increasing review quality assessment efficiency by 60%.

Meal Planner & Recipe Finder | Swift, SwiftUI, SwiftData, MapKit, REST APIs | GitHub

Spring 2025

- Architected full-featured iOS application using **SwiftUI** and **MVVM design pattern**, integrating **Edamam Recipe API** for 10,000+ recipes with personalized filtering.
- Built data persistence layer using **SwiftData** and **async/await** concurrency for seamless API integration and real-time synchronization.
- Designed sophisticated UI system with 8+ views including meal planning and **MapKit** restaurant discovery, supporting dark mode and responsive design.

CalHacks: YouDub Chrome Extension | JavaScript, HTML, CSS, Chrome APIs, REST APIs | Website

Fall 2024

- Delivered innovative Chrome extension enabling YouTube accessibility through customizable voice-overs, integrating **Google Cloud Translate** and **ElevenLabs APIs** for 100+ languages.
- Implemented real-time transcription processing and audio synchronization using **Chrome Extension APIs**, handling YouTube's security protocols seamlessly.
- Collaborated with 4-member team during 48-hour **CalHacks hackathon**, managing 100+ Git commits while debugging complex browser security issues.

Technical Skills

Languages: Python, Java, JavaScript, Swift, TypeScript, C/C++, SQL, HTML5, CSS, Dart, MATLAB

Frameworks/Libraries: React, Node.js, SwiftUI, Spring Boot, React Native, Three.js, Material-UI, JavaFX, GSAP, JUnit, H2 Database, REST APIs

Developer Tools: Git, Xcode, IntelliJ IDEA, Visual Studio Code, PyCharm, Eclipse, Figma, Overleaf, Jira

Certifications: MKCL KLiC C Programming Course; Learn Python Programming Masterclass