

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; Principles of Mobile App Development; Software Engineering; Computer Organization & Assembly Language Programming; Logic in Computer Science; Digital Design; Discrete Mathematical Structures; Linear Algebra; Calculus I & II

Leadership & Extracurricular: Participated in **Grand Challenges Scholars Program** and actively contributed to Engineering Projects in Community Service

Projects

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

2024

- Engineered comprehensive academic review platform with **role-based authentication** supporting 5+ user roles and secure password hashing, serving 1000+ potential users.
- Architected scalable **MVC design** with 4 specialized database helpers managing user accounts, reviews, and admin requests using **H2 embedded database**.
- Implemented automated **reviewer scorecard system** with weighted algorithms across 4 parameters, increasing review quality assessment efficiency by 60%.
- Developed robust **4-phase testing framework** using **JUnit 5** with 95%+ code coverage, ensuring system reliability and comprehensive documentation.

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

2024

- Architected comprehensive iOS application using **SwiftUI** and **MVVM design pattern**, integrating **Edamam Recipe API** to serve 10,000+ recipes with personalized filtering.
- Engineered complex data persistence layer using **SwiftData** and **async/await** concurrency for seamless API integration and real-time synchronization.
- Built sophisticated UI system with 8+ views including meal planning and **MapKit** restaurant discovery, supporting dark mode and responsive design.
- Collaborated with teammate implementing advanced features including calorie tracking and location-based restaurant finder with secure API authentication.

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

October 2024

- Developed innovative Chrome extension enabling YouTube accessibility through customizable voice-overs, integrating **Google Cloud Translate** and **ElevenLabs APIs** for 100+ languages.
- Engineered 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.
- Implemented comprehensive solution architecture supporting multiple voice models, resulting in Chrome Web Store submission with global accessibility impact.

Experience

Application Developer Intern

10/24 – 03/25

Junglore — junglore.in

Remote, Mumbai, India

- Architected scalable mobile application features using **Flutter (Dart)** framework, implementing modular design patterns that improved code reusability by 40%.
- Engineered comprehensive "Trips & Safari" module with **Flutter Splash** integration, designing user-centric interfaces through **Figma** prototyping that increased user engagement by 35%.
- Collaborated with cross-functional team of 5 developers in **agile environment**, exploring **AI integration opportunities** including ChatGPT API implementation.
- Implemented responsive UI elements and state management solutions for smooth performance across multiple device setups.

Technical Skills

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

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

Libraries/Frameworks: SwiftUI, Flutter, JavaFX, React, Node.js, Spring Boot, H2 Database, JUnit

Certifications: MKCL KLiC C Programming Course (Completed five programming projects, emphasis on algorithm development); Learn Python Programming Masterclass (Python Fundamentals, OOP concepts, & program development)