

Ayush Sachin Wattamwar

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Education

Arizona State University - Tempe, AZ

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

GPA: 4.0/4.0

Expected May 2027

Academic Recognition: Dean's List, New American University Scholarship (\$13,500 Annually)

Relevant Coursework: Computer Organization & Assembly Language Programming, Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Software Engineering, Mobile Application Development, Natural Language Processing

Leadership: Grand Challenges Scholars Program (Engineering Innovation), Engineering Projects in Community Service (EPICS)

Technical Skills

Programming Languages: C/C++, Java, Python, JavaScript, TypeScript, Swift, MATLAB, Assembly Language

Hardware & Systems: Computer Architecture, Digital Logic Design, Embedded Systems, Linux/Unix, Performance Optimization

Software Development: Object-Oriented Programming, Data Structures, Algorithms, Multi-threading, Memory Management

Tools & Technologies: Git/GitHub, Visual Studio Code, IntelliJ IDEA, Xcode, Docker, CI/CD, Debugging Tools

Engineering Skills: Problem-Solving, System Design, Testing & Validation, Technical Documentation, Agile/Scrum

Professional Experience

Software Engineering Intern - AI Integrations

05/24 – 08/24

AGI — [agi.ai](https://ai.agi.ai)

Mumbai, India

- Architected and deployed scalable **GenerativeAPI** platform using **Node.js/Express** and **MongoDB**, delivering **8+ RESTful endpoints** serving thousands of API requests monthly for AI-powered predictive modeling and itinerary generation.
- Implemented comprehensive **observability infrastructure** with telemetry, centralized error handling, and performance monitoring, achieving **20% throughput improvement** across distributed microservices architecture.
- Led secure authentication system design using **JWT** and integrated **4 external AI services** via HTTPS; mentored **2 junior developers** in agile development practices and established coding standards for cross-team collaboration.

Software Developer Intern

05/23 – 08/23

Junglore — junglore.com

Mumbai, India

- Developed high-performance web application using **React 18 + Vite** with **Three.js** for complex 3D rendering; built responsive UI components with **Material-UI** ensuring accessibility compliance and cross-browser compatibility.
- Engineered scalable backend services powering AI-driven wildlife identification system, designing efficient APIs supporting **1,000+ concurrent users** with real-time data processing capabilities.
- Optimized application performance by **40%** through render optimization and asset delivery improvements; developed role-based admin panel with authentication, coordinating with design team to enhance user experience in bandwidth-constrained environments.

Projects

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

01/25 - 05/25

- Engineered comprehensive academic review platform in **Java** with scalable **MVC architecture**; implemented role-based access control (RBAC) supporting **5+ user roles** and secure authentication for **1,000+ user accounts**.
- Designed and optimized **4 database access layers** with **H2 embedded database**, implementing efficient query patterns and caching strategies that improved system reliability and reduced response times by **60%** under peak load.
- Designed weighted scoring algorithm for automated reviewer evaluations across 4 metrics, achieving fairness and consistency across **1,000+ user accounts**; implemented comprehensive **JUnit** test suite with **90%+ code coverage**.

Meal Planner & Recipe Finder (iOS App) | Swift, SwiftUI, SwiftData, MapKit, REST APIs | GitHub

01/25 - 05/25

- Developed native iOS application using **SwiftUI** with **MVVM architecture**; integrated **Edamam Recipe API** providing access to **10,000+ recipes** with advanced filtering, search, and personalization features.
- Implemented robust data persistence layer using **SwiftData** with **async/await** concurrency patterns; ensured seamless offline functionality and efficient data synchronization across user sessions.
- Created sophisticated multi-view UI system including meal planning interface and **MapKit** restaurant discovery; implemented accessibility features, dark mode support, and responsive design for optimal user experience.

YouDub – Chrome Extension for Accessibility | JavaScript, Chrome APIs, Google Cloud | DevPost

10/24

- Built innovative Chrome extension using **JavaScript** and **Chrome Extension APIs** enabling YouTube accessibility through customizable voice-overs; integrated **Google Cloud Translate** and **ElevenLabs APIs** supporting **100+ languages**.
- Engineered real-time audio synchronization system with transcription processing; overcame complex YouTube Content Security Policy restrictions and implemented secure API communication protocols.
- Collaborated effectively in **4-member team** during **48-hour CalHacks hackathon**; managed **100+ Git commits** and resolved critical browser security challenges under tight deadlines, demonstrating strong problem-solving skills.