RISHEENDRA REDDY BODDU

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EDUCATION

Bachelor of Computer Science (GPA: 3.76) **May 2025**

Arizona State University **Tempe, AZ**

Relevant Coursework: Object-Oriented Programming, Algorithms, Data Structures, Assembly Language, Information Assurance, Software Engineering, Machine Learning, Databases, Mobile App Development, Cloud Computing, Human-Computer Interaction

TECHNICAL SKILLS

- Languages: Java, C++, Python, JavaScript, SQL, C, Go, C#, XML, TypeScript, Swift
- Front-End: React, HTML, CSS, JavaFX, Tailwind, Next.js, FXML
- Backend & APIs: REST APIs, JSON, Node.js, Flask, Django, Spring Boot
- Testing: Jest, JUnit, Playwright, Manual Test Plans, Validation Reports
- Cloud & Monitoring: AWS (CDK, Lambda, S3, DynamoDB, API Gateway), Google Cloud Platform (GCP), CI/CD
- Databases: PostgreSQL, NoSQL, MySQL, DynamoDB
- Tools & Processes: Git, GitHub, GitLab, Linux, Xcode, Figma, Docker, Agile/Scrum, SDLC, Object-Oriented Programming (OOP), UX Testing

EXPERIENCE

Full Stack Software Engineer Intern **September 2024 - April 2025**

ASU Center for Entrepreneurship & New Business Design **Tempe, AZ**

- Developed a full-stack application using React and Flask, integrating SDK-style REST APIs and modular, testable UI components.
- Optimized backend workflows and PostgreSQL queries, reducing latency by 25% and improving system reliability.
- Implemented CI/CD pipelines with GitHub Actions and automated testing using Jest, enabling faster A/B test releases and cutting manual QA by 40%.
- Collaborated with designers and researchers to deliver personalized onboarding experiences informed by real-time feedback loops.

Software Engineer Intern **May 2024 - August 2024**

Veterinary Biological Research Institute **Remote**

- Built scalable backend processing tools and APIs in Java to validate structured data and streamline research workflows, processing 10,000+ records daily in Linux-based environments.
- Designed and implemented distributed SQL-based data pipelines with RESTful API endpoints for automated ingestion and real-time processing of experimental data.
- Increased processing efficiency by 35% using memory-optimized data structures and batch processing techniques.
- Documented internal architecture and contributed to sprint planning in an Agile research-engineering environment.

Residential Assistant **January 2023 - May 2025**

Arizona State University **Tempe, AZ**

- Built community initiatives supporting 2,300+ students, focusing on usability, empathy, and feedback loops.
- Organized 5+ collaborative events per semester, improving campus engagement by 30%.
- Designed a student-facing portal using HTML and Google Sites, improving access to wellness/academic tools by 20%.

PROJECTS

AI Chat History Manager **January 2024 - April 2024**

- Built a platform that centralizes AI conversations, featuring REST APIs, JWT auth, and SQLAlchemy-based data management.
- Integrated multi-model AI (OpenAI, Anthropic, Gemini) with context-aware chat, fallback logic, and semantic search.
- Designed a modern, responsive UI with glassmorphism, theming, animations, and advanced conversation organization.

S&P 500 Prediction Application

- Created a production-ready financial prediction system using machine learning (LightGBM, XGBoost) with FastAPI backend and React frontend.
- Designed RESTful APIs with automated model training, batch prediction endpoints, and Docker containerization for scalable deployment.
- Implemented end-to-end CI/CD workflows, comprehensive API documentation, and interactive UI for real-time model monitoring and predictions.

Automated File Processing and Data Management System **May 2024 - August 2024**

- Built a React + TypeScript web app simulating low-code UI authoring for uploading and managing JSON data.
- Deployed serverless backend using AWS CDK, Lambda, S3, and DynamoDB for scalable cloud integration.
- Applied best practices in component design and tested UI components using Jest to ensure maintainable and reliable code.