

# Krishna Balaji

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## EDUCATION

### Arizona State University

B.S. in Computer Science (Honors), Minor in Business, GPA 4.00/4.00

Tempe, AZ

Expected May 2026

## EXPERIENCE

### Software Engineering Intern

Aug 2025 – Present

Circle.ooo

Remote – Houston, TX

- Designed and implemented modular **backend services** that unified multi-account event registration into a seamless **single-tap system**.
- Integrated and tested **AI-powered services** with **REST APIs**, implementing monitoring and structured logging to improve system reliability and maintainability.
- Deployed the registration system using **CI/CD pipelines**, cutting manual onboarding effort by **70%** and supporting **100+ event sign-ups** in the first month.

### Applied ML Research Intern

Aug 2025 – Present

Arizona State University (Honors Thesis)

Tempe, AZ

- Engineered reproducible **Python pipelines** with APIs and large datasets to forecast weekly player performance as part of an **Honors Thesis** in predictive modeling.
- Implemented modular, testable code for **Random Forest**, **XGBoost**, and **Neural Networks**, applying software best practices such as version control, unit testing, and modularization.
- Integrated results into interactive dashboards used by **50+ students and researchers**, demonstrating scalable software applications of predictive models.

### Machine Learning Engineer Intern

May 2025 – Aug 2025

Quantiphi

Mumbai, India

- Developed **Python ETL pipelines** to normalize and structure insurance claim data, reducing manual review time by **80%**.
- Built and optimized **document extraction services** using LLMs, improving field-level accuracy from **72% to 90%** across **10,000+ claims**.
- Delivered production-grade services deployed across enterprise datasets, accelerating claim approvals and reducing operational costs by **25%**.

## PROJECTS

### AI-Powered Job Matcher | React, FastAPI, OpenAI | GitHub | Live Demo

Aug 2025 – Sep 2025

- Built a **FastAPI backend** with documented endpoints using **OpenAPI** that parsed resumes in **PDF/DOCX** formats and computed match scores using **TF-IDF** and **Sentence-Transformers**.
- Developed a responsive **React frontend** integrated with the backend, processing **200+ resumes** in demo tests and reducing recruiter screening time by **40%**.

### Pennywise AI | Next.js, PostgreSQL, Plaid API | GitHub | Live Demo

Aug 2025 – Sep 2025

- Developed a fintech application integrating the **Plaid API** with a **PostgreSQL database** to ingest transactions, compute KPIs such as burn rate and runway, and render dashboards in **Next.js**.
- Implemented secure authentication and automated syncing, analyzing **10,000+ transactions** and generating insights that identified **\$500+ in monthly savings**.

### Charity Donation Manager | SwiftUI, Firebase, Places API | GitHub | Live Demo

Jan 2025 – Feb 2025

- Built an offline-first **iOS application** with **Firebase**, syncing **50+ charity records** across offline and online modes to ensure reliable donation tracking.
- Implemented location-aware discovery for **25+ charities** with the **Google Places API** and **CoreLocation**, and tested **20+ secure payment flows** with validation and error handling.

## LEADERSHIP AND AWARDS

### Perplexity Campus Partner

Sep 2025 – Present

- Selected as a campus representative to promote and integrate **Perplexity AI** tools within the student community.

### Secretary, CodeDevils

Apr 2023 – Oct 2024

- Coordinated events and streamlined communication for **400+ members**, supporting one of ASU's largest coding organizations.

### Devils Invent Hackathon – 3rd Place

Sep 2023

- Won 3rd place for building an **AR-based social media prototype** to market Fulton programs during a 48-hour hackathon.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript/TypeScript, Java, C/C++, SQL, Swift (iOS)

**Databases:** PostgreSQL, MongoDB, Supabase

**Frameworks & Libraries:** React/Next.js, Flask, FastAPI, Firebase, Hugging Face, Prisma, Bootstrap

**Cloud & DevOps:** Git, Docker, AWS, GCP, Vercel, Render, CI/CD, Postman, Pytest, JUnit

**ML/AI:** Large Language Models (LLMs), Prompt Engineering, PyTorch, scikit-learn, Jupyter Notebooks