

# Pranav Zagade

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## EDUCATION

**Bachelor of Science, Computer Science**

*Aug 2021 - May 2025*

Arizona State University, Tempe, Arizona

GPA: 3.7

**Dean's List Holder (6x), Magna Cum Laude**

**Relevant Coursework:** Machine Learning, Artificial Intelligence, Cloud Computing, Data Structures and Algorithms, Distributed Software Development, Mobile App Development, Software Engineering, Object-oriented Programming.

## SKILLS

**Languages:** Java, Python, C++, JavaScript, C#, Swift, PHP

**Libraries and Frameworks:** React, Node.js, Next.js, SwiftUI, ASP.NET

**Tools:** Git, GitHub, AWS, Firebase, Docker, MySQL, PostgreSQL, Postman, Jira

## PROFESSIONAL EXPERIENCE

**Software Engineer, Community Dreams Foundation**

*Aug 2025 - Present*

- Designed an **agentic support chat system** that converts user messages into **Jira** tickets with **92% routing accuracy**.
- **Architected a RAG-based retrieval layer** over internal documentation, increasing first-response accuracy by **31%**.
- Added **automated tests and alerting** after silent failures caused repeated ticket creation errors.
- Deployed services on **AWS** with tracing and failure safeguards, maintaining **98%** system availability.

**Software Engineering Intern, PAQT**

*Aug 2024 - May 2025*

- Built reusable **React** components using **Tailwind CSS**, enhancing responsiveness and increasing engagement by **25%**.
- Integrated **OpenAI's LLM** to automate agreement generation, reducing effort by **50%** and improving accuracy.
- **Optimized and debugged backend APIs**, resolving critical issues to boost system uptime, stability, and performance.
- **Refactored** oversized code modules, reducing their size by **over 80%** and making the **codebase** easier to maintain.

**Data Engineer Assistant, Follett Higher Education**

*Dec 2022 - Aug 2024*

- Engineered **Python ETL pipelines** aggregating sales data, reducing report generation time by **40%**.
- Automated end-to-end sales data processes to identify top-selling products, **reducing inventory losses by 30%**.
- Created interactive **Power BI** dashboards using SQL data to guide purchasing decisions, influencing **\$135,000 in sales**.
- **Improved data pipeline reliability** by restructuring messy **SQL** logic and reducing **processing failures** across workflows.

## PROJECTS

**Lumora** | *Next.js, FastAPI, DuckDB, Vercel, Groq AI*

- Launched analytics platform using **DuckDB** and **FastAPI** answering spreadsheet questions in **under one second**.
- Developed **Groq-powered natural language to SQL** queries with ambiguity resolution and deterministic execution.
- Created **Next.js** visualization engine dynamically rendering CSV data into interactive dashboards without configuration.

**Your Next Lease** | *Next.js, React, Cloudinary, Vercel*

- Built scalable **Next.js** server components and API actions handling **10,000+ listings** with **35% faster** fetch performance.
- Integrated **Cloudinary** pipelines with automated transforms, reducing image size by **60%** and improving rendering.
- Improved system reliability by optimizing **Vercel** deployments, traffic routing, and DNS configuration in production.

**Track My Day** | *SwiftUI, Firebase Firestore, CoreLocation, WeatherKit*

- Built a task management app using **SwiftUI** with an intuitive interface for organizing and tracking daily tasks.
- Integrated **Firebase Firestore** to store and manage **75+ tasks**, with real-time weather and location tracking.
- Implemented task categorization, allowing users to **organize 200+ tasks** into Personal, Work, and School categories.

**Lucia AI** | *Python, SpeechRecognition, PHP, MySQL, REST APIs*

- Implemented a cross-device voice assistant using **Python's SpeechRecognition module** to process system commands.
- Established secure **REST APIs** enabling real-time remote control of laptops and PCs via browser-based web interfaces.
- Configured a **PHP-MySQL** backend with encrypted storage supporting authentication, synchronization, and routing.

## EXTRACURRICULAR ACTIVITIES

**Google Developers Student Club**

*Aug 2022 - May 2025*

- Led technical workshops and coding events that expanded student engagement and strengthened the community.
- Coordinated team collaborations that improved event workflows and strengthened peer knowledge sharing.