

# ANAY SHIROLKAR

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## EDUCATION

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### Arizona State University

Aug 2023 - May 2027

Bachelor's of Science in Computer Science, Minor in Business - CGPA: 3.8

Tempe, AZs

Coursework: *Data Structures, Software Engineering, Information Assurance, Operating Systems, Assembly Language, Digital Design, Calculus, Finance, Management, Accounting, Marketing*

## TECHNICAL SKILLS

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**Programming Languages:** C/C++, Python, Java, HTML, CSS, JavaScript, SQL

**Developer Tools:** Visual Studio, BlueJ, PyCharm, Git, Power BI, MobaXterm

**Database and Cloud:** MySQL, MongoDB, AWS

## WORK EXPERIENCE

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### Arizona State University

Mar 2025 - Present

#### Engineering Tutor

Tempe, AZ

- Tutored Computer Science, Math, & Science Subjects for students enhancing academic performance.
- Led review sessions & office hours, improving grades by 15% & reducing course drop rate by 20%.
- Guided students in mastering DSA & programming classes through problem-solving & coding practice.

### Riipen

Oct 2024 - Nov 2024

#### Software Engineer Intern

Tempe, AZ

- Created full-stack website that instantly creates quizzes from on-page content improving delivery by 25%.
- Extracted & integrated quizzes into website by querying SQL-based database, improving accessibility.
- Structured integration process to support future scalability that increased operational efficiency by 20%

### Ek Software

May 2024 - Aug 2024

#### Software Engineer Intern

Remote

- Developed enhanced back-end features for client-focused pharmacy portal using Django, gaining hands-on experience in secure user authentication, efficient data management, & seamless API integration.
- Designed & built AI-powered solutions, demonstrating problem-solving skills & prototyping abilities.
- Managed end-to-end app dev, from coding to review publishing, in collaboration of multiple teams.

## PROJECTS

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**Sage** | Python, Javascript, Node.js, MyAI Builder, LangChain, FAISS

- Engineered a GPU-accelerated learning platform, integrating real-time multi-user GPU allocation, AI-powered tutoring, and seamless cloud based supercomputer access through scalable backend services.
- Built Python, LangChain & FAISS backend, achieving 20x faster execution with Gemini-powered AI.
- Made platform with WebSockets & GPU scheduling, enabling instant feedback & boosting usage by 60%.

**Aero.Docs** | Python, Ollama, SQLite, Next.js

- Designed and deployed a streamlined knowledge base for Honeywell using a RAG pipeline with vector search, reducing query response time by 45% and improving retrieval accuracy by 30%.
- Implemented search with barcode scanning, part lookup, & image recognition reducing 25% search time.
- Built document upload & retrieval features for maintenance logs & manuals, improving repair workflows.

**Orbit** | Python, SQLite, Next.js, Rest API

- Developed AI-powered tool using Rest API, Next.js, and TypeScript to create custom travel itineraries.
- Integrated APIs, including FlightLabs & Gemini AI, for real-time travel data & Google authentication.
- Revamped trip guide for users focused on efficiency, reducing search time by 40%, improving retention.

## EXTRA-CURRICULAR & AWARDS

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**DevLabs @ASU** Founding Member: Built & led collaborative projects in SD, focusing on programming, data structures, & real-world problem solving; organized a hackathon with 300+ participants.

**Google Developers Student Club:** Focused on SD & applying Google Tech to solve challenges.

**Dean's List x4:** Award for students who have achieved excellence in academics at ASU.