

Ayush Sunil Shejwal

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Education

Arizona State University (Honors)

Bachelor of Science in Computer Science (GPA: 3.90 / 4.00)

Tempe, AZ

May, 2026

- **Relevant Coursework:** Data Structures and Algorithms (C++, Python), Digital Design Fundamentals, Discrete Math, Object Oriented Programming, Calculus I,II,III, Prob & Stats, Linear Algebra, Database Management

Experience

Pebbles AI

August 2025 - Present

Software Engineering Intern

Remote

- Building a plug-and-play local **AI** platform (targeting <\$500 hardware) to eliminate **100%** cloud dependency for sensitive document processing.
- Integrating quantized **LLaMA/Mistral** models with a lightweight API and UI, targeting **30–40%** lower memory use via optimization.
- Benchmarking on **RTX 4090, A100**, and **Intel NUC** devices to improve throughput **25–50%** and reduce latency **20%+**.

STILED

April 2025 - Present

CTO, Co-founder

Tempe, AZ

- Built a two-sided marketplace mobile app with **React Native/TypeScript**, **Node.js/Express**, and **PostgreSQL**; developed **15+ REST APIs** enabling real-time bookings, GPS-based stylist discovery, and a social graph for **500+ users**.
- Implemented hybrid auth (**JWT + Supabase UUIDs**), relational schema, and backend middleware for **rate limiting**, **validation**, and **CORS**; optimized **Railway** deployment with **caching**, **logging**, and **cron** jobs, improving API response times **35%**.
- Developing an AI styling engine using **embeddings**, **vector search**, and fine-tuned **LLMs** to model **20+** user attributes; supports **multi-modal** inputs for personalized outfit recommendations, achieving **50–100 tokens/sec** inference.

ASU Center for Carbon Emission Lab

Aug 2024 – Dec 2024

Research Aide

Tempe, AZ

- Engineered a Python data pipeline using **Piconnect**, **Pandas**, and **datetime** to extract, clean, validate, and process **500+** industrial time-series datasets (CO2 levels, heat, wind, humidity), producing analysis-ready CSVs.
- Developed a **Flask** app with RESTful APIs for tag file uploads, processed data retrieval, and automated reporting, reducing manual intervention and streamlining lab workflows by **30%**.

Projects

Market Insights AI, Personal Project | *Python, FastAPI, React, TypeScript, GPT-4, VADER, PostgreSQL, TailwindCSS, D3.js*

- Built a financial insights platform combining **GPT-4** and **VADER** for AI-powered sentiment analysis and real-time market prediction.
- Integrated Alpha Vantage for live stock data and visualized insights using **D3.js** and **ECharts** for financial graphs.
- Applied **ORM** concepts using **SQLAlchemy** and designed scalable APIs with **FastAPI**, ensuring modularity and speed.

Eventus, LA Hacks | *Python, Reflex Dev, Google's Gemini API pro- 1.5, News API*

- Developed a news aggregator app leveraging Google's **Gemini API** for **NLP-based** sentiment analysis to mitigate media bias.
- Designed a responsive and UI with **Reflex**, using libraries like **Styled Components** and **Zustand** for state management.

Skills

Programming: Python, C++, JavaScript, TypeScript, Java, SQL, C, HTML, CSS, Sass, Bash

Frameworks: React.js, Node.js, Angular, Flask, FastAPI, TailwindCSS, TensorFlow, PyTorch, Scikit-learn, HuggingFace Transformers, Pandas, NumPy, SciPy, VADER Sentiment

Databases: PostgreSQL, MySQL, MongoDB, Firebase, Supabase

Cloud & DevOps: AWS (Lambda, S3), Azure Cloud, Git/GitHub, CI/CD (GitHub Actions), Linux/Unix, Railway

AI / Machine Learning & LLMs: LangChain, OllamaLLM, ChatOpenAI, ChatAnthropic, embeddings & vector search (Chroma, FAISS), prompt engineering, Pydantic output parsing, OpenCV

Leadership

Senator | *IRA Fulton Schools of Engineering, ASU-* Managing the appropriations team by allocating a budget of **\$300k**

Vice President | *Software Developers Association-* Managing finances, event logistics, company relations