

# 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 **Plconnect, 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