480-999-8027 | oavashia@asu.edu | Tempe, AZ | GitHub | LinkedIn

EDUCATION

Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZMay 2027Bachelor of Science, Computer Science, GPA 4.0 (Dean's List, New American University Scholar)Relevant Coursework: Data Structures & Algorithms, Introduction to Programming Languages, Introduction to Software Engineering

TECHNICAL SKILLS

Frontend: React.js, HTML/CSS Backend: Spring Boot, FastAPI, Web Sockets, REST APIs, JWT Authentication, Git Machine Learning: PyTorch, Convolutional Neural Networks (CNNs), Data Synthesis & Generation Languages: Python, Java, JavaScript Databases: PostgreSQL, MySQL

EXPERIENCE

IP Author, San Mateo, CA

Software Engineering Intern

Geometry (faculty-led).

- Developed a full-stack AI-driven legal contract generation and review system using **React.js**, **Python (FastAPI, LiteLLM)**, and **integrated Dify.ai with Tiptap** for seamless UX and real-time rich text editing.
- *Reduced LLM response time from 16s to <2s* by implementing response token streaming through web sockets.
- Developed and deployed a scalable, responsive web application under tight time constraints.

PROJECTS

Expense Tracker | Java, Spring Boot, PostgreSQL, Python, Streamlit

- Developed a full-stack expense tracking app with a *Spring Boot REST API backend* and *Streamlit frontend*, using JWT authentication for secure login and session management.
- Built a multipage frontend with protected views, conditional access, and session-state token storage across pages.
- Simulated attack scenarios (SQL Injections, Brute Force Attacks) on 7 *REST API endpoints and 5 unit tests* to ensure secure functionality.

ChromaLite | Python, PyTorch, scikit-learn, pandas, matplotlib, NumPy, fluidsynth, librosa, music21

- Designed a custom neural network from scratch for musical scale classification, achieving 80% classification accuracy.
- Synthetically generated and labeled a custom dataset of 1900+ music samples across 24 scales.

OTHER EXPERIENCE	
Project STEM, Remote	Jan 2025 - Present
Python Teaching Assistant	
• Debugged student Python scripts across syntax, logic, and runtime errors, providing structured accelerate assignment completion in AP CS Principles and CS Python Fundamentals.	explanations to
StepUp Tutoring, Remote	Jan 2025 - Present
English Tutor	
• Tutored two middle school children, prioritizing one-on-one attention to improve reading and co Math Tutor	omprehension skills.
• Tutored a middle schooler and taught her to count, add, and subtract larger numbers.	Aug 2024 – Nov 2024
School of Mathematical and Statistical Sciences, ASU, Tempe, AZ Instructional Aide/Grader	Aug 2024 – Present
• Grading assignments and tutoring 50+ students in MAT117 (College Algebra) and MAT142 (C	college Mathematics).
LEADERSHIP	
STEMathematics, ASU	
President	Aug 2024 – Nov 2024
• Seminar hosted: The Mathematics of Artificial Intelligence.	
Outreach Coordinator	Oct 2023 – Aug 2024
• Spearheaded outreach efforts to grow STEMathematics from 0 to 50 members in 3 months.	
• Collaborated with various stakeholders to organize seminars on <i>p-Adic Numbers, Real Analysis</i>	s, and non-Euclidean

May 2025 - Present