

SUJAL PRAJAPATI

Tempe, AZ | Open to Relocating or Remote | (210)-954-0856 | spraja13@asu.edu | [Github](#) | [LinkedIn](#) | [Portfolio](#)

EDUCATION

BS in Computer Science, Arizona State University

Expected May 2027

GPA: 4.0/4.0

Coursework: Big Data Analytics, Data Structures and Algorithms, Object Oriented Programming, Intro to Software Engineering, Information Assurance, Software Security, Network Security

EXPERIENCE

Software Engineer Intern

May 2025 - July 2025

Principled Innovation Academy

Tempe, AZ

- Developed and deployed a full-stack productivity app using Next.js, React, TypeScript, and Tailwind CSS on Vercel, enabling 90+ students to track wellness goals.
- Spearheaded the development and integration of a rewards store feature, resulting in 10% higher average session duration across the application, implemented across the entire app..
- Designed and implemented a reusable **UI component library** with 25+ components, ensuring accessibility, visual consistency, and faster development across the app ecosystem.

Undergraduate Research Assistant

October 2024 - May 2025

FURI, Arizona State University

Tempe, AZ

- Designed a machine learning-based framework to predict wireless channel characteristics, reducing real-time channel estimation overhead by approximately **35%** in simulated communication systems.
- Enhanced model robustness by processing complex channel data into real and imaginary components and injecting noise across multiple **SNR levels (0-10 dB)**, achieving consistent accuracy above **85%** across datasets.
- Accelerated experimentation throughput by approximately **3x**, enabling automated processing of over **9 datasets per run** by streamlining data preparation, noise simulation, and accuracy evaluation in Python for Random Forest, SVC, and Gaussian Naive Bayes models.

PROJECTS

Voix ai (Devpost-link)

Oct 2025

- Engineered a **local voice AI copilot for Windows** enabling conversational desktop control and multi-step workflows like document creation, meeting transcription, and web search, reducing task execution time by **60%**.
- Built a high-performance **voice-to-action pipeline** integrating **Faster-Whisper**, **Groq**, and **Claude** for real-time intent recognition and Python-based COM automation for seamless app orchestration.
- Enhanced productivity and privacy by building a fully local, threaded audio and task management system supporting workflows like document creation and meeting transcription.

Crescendo ai (Devpost-link)

June 2025

- Engineered a web application utilizing Google Gemini to deliver real-time, AI-driven musical performance feedback, enhancing learning experiences for 200+ students globally and democratizing access to high-quality music education.
- Engineered an AI “music teacher” assistant that analyzes user audio, identifies strengths and weaknesses, and generates structured feedback with time-stamped callouts and learning resources.
- Delivered an intuitive interface with **Next.js**, **React**, and **Tailwind CSS**, featuring instrument selection, performance analysis, and a voice-activated chatbot for interactive learning.

Augmented Reality Map - EPICS

August 2024 - December 2024

- Collaborated with a cross-functional EPICS team of **6 members** to design and develop a 2D indoor navigation iOS app for ASU's Engineering Center, improving wayfinding efficiency for **500+ students and visitors**.
- Contributed to a scalable system architecture supporting **multi-campus deployment** and future **AR-based navigation**, accelerating prototype readiness by **30%** through efficient floor plan mapping and pathway design.

SKILLS

Programming Languages

C++, Java, Python, JavaScript, TypeScript, SQL

Web Technologies

HTML, CSS, React, Node.js

Databases

MySQL, PostgreSQL

Libraries

Numpy, Pandas, Scikit-learn

Frameworks & Technologies

TensorFlow, PyTorch, Linux

Tools

Visual Studio, PyCharm, Eclipse, IntelliJ IDEA, JIRA, Git, Docker

Soft Skills

teamwork, communication, reliability, committed, creative

ACTIVITIES

- Accepted into CodePath's competitive software engineering program; gaining hands-on experience in full-stack development through industry-relevant projects and mentorship.
- Facilitator for Principled Innovation Academy; managed events and guided participants in addressing real-world problems through collaborative solutions.