# AAKASH / FNU AAKASH

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## EDUCATION

**Arizona State University**                                                                 **August 2023 - May 2025**
*Master of Science in Information Technology*                                                               *GPA: 4*
- Cloud Architecture, Cloud Operation and Security, Network Forensics, Middleware prog. and Security

**Poojya Doddappa Appa College of Engineering**                                    **August 2018 - May 2022**
*Bachelor's of Engineering in Computer Science*                                                         *GPA: 8.9*
- Data Structures & Algorithms, Artificial Intelligence, Database Management Systems, Object Oriented Programming

## EXPERIENCE

**Saayam For All**                                                                                 **Tempe, AZ, USA**
*Full Stack Developer*                                                                            *June 2025-Present*
- Developed and maintained scalable web and mobile app features using React.js, React Native, and Python, integrating REST APIs based on product requirements.
- Built Generative AI components and deployed microservices using Kafka and AWS EKS, with extensive use of AWS tools like Lambda, API Gateway, Cognito, CloudWatch, and RDS.
- Wrote and executed unit tests and automated test suites, ensuring quality and stability through CI/CD practices.
- Worked with PostgreSQL and Amazon Aurora databases, and documented development workflows for cross-team collaboration.

## PROJECTS

**Faith - 1st Place, Hack SoDA | Python, LLM, React, AWS EC2, fastapi**
- Developed a custom AI-powered tool (Faith Engine) using GPT-4 for comprehensive domain history analysis.
- Built a responsive frontend using React, focusing on user-friendly design and intuitive interface.
- Created a Chrome browser extension for real-time domain safety checks.
- Implemented a robust backend using FastAPI for efficient data processing and analysis.

**Tom Riddle's Diary – 3rd Place, Innovation Hacks | Python, LLM, React, fastapi, PyTorch**
- Built an AI-Powered personal diary inspired by the tom riddle diary from Harry Potter, enabling users to have immersive, intelligent conversations that reflect and grow overtime.
- Engineered a natural conversation interface with long term memory retention using chromed and semantic search.
- Integrated Google GenAI and custom PyTorch models to create empathetic, concise AI responses with evolving memory.
- Optimized backend efficiency while delivering a magical, disappearing-input experience on the react frontend.

**Melodia - 2nd Place, Sunhacks 2024 Hackathon | Python, Music Theory, AWS EC2, S3, Flask**
- Developed a music enhancement tool that adds instrumental tracks to existing songs without using AI or ML.
- Spearheaded the implementation of complex music theory algorithms, enabling Melodia to analyze and match the pitch, scale, and tempo of uploaded songs.

**The Vizards - Top 5 in OHack 2024 | React, Flask, LLM, Rest API, MySQL**
- Developed a comprehensive React dashboard application for Habitat for Humanity a US Based non-profit organization, enabling employees to efficiently manage surveys, analyze data, and gain insights
- Reduced data analysis efforts by 80% with an innovative "Ask Wizard" feature, enabling non-technical users to extract complex insights from survey data using natural language queries.

**Environmental Sound Classification - Finalist, 11th CSI-InApp International Student Project Awards 2022**
- This project classifies and predicts Environmental Sounds specifically Human, Animal, and Vehicle sounds.
- Implemented using Convolutional Neural Networks (ReLU Activation Function) and data augmentation

## CERTIFICATIONS

AWS academy Cloud Architecting , AWS Cloud Operations, AWS Cloud Security Foundations, Runner up AWS JAM-ASU 2024, Google cloud certified, NPTEL online certification in IOT.

## SKILLS

Python, LLM (Large Language Model), AWS (Amazon web services), TensorFlow, PyTorch, LangChain, RAG, C, C++,  SQL, JavaScript, PHP, HTML, CSS, TypeScript, ReactJs, NodeJs, Flask, WordPress, Docker, Git, Google Cloud Platform, CI/CD , Azure, Version control, Postman, REST API, Scrum, Agile methodologies, Linux, Unix, Shell Scripting.