

# FNU AAKASH

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## EDUCATION

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### Arizona State University

August 2023 - May 2025

Master's, Information Science

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, Computer Science

GPA: 8.9

- Data Structures, Artificial Intelligence, Database Management Systems, Object Oriented Programming

## PROJECTS

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### 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 75% 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

## EXPERIENCE

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### Arizona State University

Tempe, AZ, USA

Teaching assistant

July 2024 - Present

- Teaching Assistant for the course Introduction to Network Information Communication Technology.
- Conducted review sessions and office hours to provide additional academic support outside of regular class time.
- Collaborated with faculty to design and refine course curriculum, ensuring alignment with educational objectives and student needs.
- Evaluated student performance through grading assignments and final examinations, providing constructive feedback to promote academic growth.

## CERTIFICATIONS

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[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

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**Skills:** MySQL, JavaScript, HTML/CSS, PHP, React.js, Node.js, Flask, WordPress, Digital Ocean, Docker, AWS, Postman, Wireshark, NoSQL, SCRUM, Agile, C/C++, Google Cloud Platform, Linux/Unix, Git, Python, SQL

**Languages:** Hindi, Kannada, English