

# AAKASH

+1 (623) 341-5438 | [gangjiaakash@gmail.com](mailto:gangjiaakash@gmail.com) | Tempe, AZ, USA | [linkedin.com/in/aakashgangji](https://linkedin.com/in/aakashgangji) | [aakashgangji.vip](https://aakashgangji.vip)

## PROFESSIONAL SUMMARY

AI Software Engineer and Full Stack Developer with 3+ years of experience (including research) architecting scalable Serverless solutions and AI platforms. Expert in Infrastructure as Code (IaC), TypeScript, and building RAG workflows using AWS Lambda. Proven track record mentoring junior engineers and leading teams to deploy robust front-end and back-end applications. Passionate about leveraging AI APIs to enhance learner experiences in higher education

## EXPERIENCE

<b>Saayam For All</b> <i>Lead AI Developer</i>	<b>Tempe, AZ, USA</b> <i>June 2025-Present</i>
<ul style="list-style-type: none"><li>Acted as Technical Lead in an Agile/Scrum environment, collaborating with cross-functional teams and mentoring junior developers on AI best practices to ensure efficient delivery of agentic workflows.</li><li>Developed robust REST APIs and GraphQL endpoints to integrate RAG models, handling complex JSON data structures for adaptive task execution.</li><li>Implemented Infrastructure as Code to manage Serverless architecture using AWS Lambda and API Gateway, reducing deployment time by 40%.</li><li>Implemented automated testing &amp; maintained robust CI/CD pipelines to ensure code quality &amp; rapid deployment cycles.</li></ul>	
<b>Aradhana Financers</b> <i>Junior Software Engineer</i>	<b>Karnataka, India</b> <i>July 2021-Aug 2023</i>
<ul style="list-style-type: none"><li>Revamped front-end financial dashboards using JavaScript, HTML5, and AJAX for asynchronous data loading, significantly improving user experience.</li><li>Built and maintained financial software applications for loan processing and payments, ensuring strict compliance with RBI.</li><li>Optimized SQL databases and APIs to accelerate financial transactions and banking integrations.</li><li>Led troubleshooting and optimization of back-end SQL queries and XML data processing, ensuring strict compliance with banking standards</li><li>Developed Python and SQL data analytics modules to automate dashboards, boosting decision-making efficiency by 35%.</li></ul>	

## PROJECTS

<b>DomainDNA (Agentic AI Security Tool) - 1st Place, Hack SoDA   Python, LLM, React, AWS EC2, fastapi</b>	<ul style="list-style-type: none"><li>Engineered the 'Faith Engine,' an autonomous AI agent capable of reasoning and risk assessment for domain history analysis using GPT-4 and FastAPI.</li><li>Demoed thought leadership in AI safety by building a real-time decision support system for browser security.</li><li>Built a responsive frontend using React, focusing on user-friendly design, intuitive interface and utilized SSO principles for secure user authentication</li><li>Developed and troubleshooted a Chrome browser extension for real-time domain safety checks, using Chrome DevTools to resolve cross-browser compatibility issues.</li><li>Implemented a robust backend using FastAPI for efficient data processing and analysis.</li></ul>
<b>Secure Task Management Systems   TypeScript, NestJS, Angular, REST APIs, JSON, SSO (JWT)</b>	<ul style="list-style-type: none"><li>Engineered a scalable full-stack application using TypeScript and NestJS, implementing SSO-like security patterns via JWT and RBAC.</li><li>Designed ETL pipelines for user data migration and audit logs, ensuring data integrity and optimizing batch jobs for performance.</li><li>Integrated CRMS features for customer lifecycle tracking, task automation, and performance analytics.</li><li>Designed robust REST APIs handling complex JSON payloads to support automated workflows and customer lifecycle tracking.</li></ul>
<b>Habitat for humanity - Top 5 in O'Hack 2024   React, Flask, LLM, Rest API, MySQL</b>	<ul style="list-style-type: none"><li>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</li><li>Built an AI-driven decision support system using RAG (Retrieval-Augmented Generation) to allow non-technical stakeholders to query complex survey data via natural language.</li><li>Analyzed massive data sets from multiple sources to provide actionable insights via natural language queries.</li></ul>

## SKILLS

**Languages:** JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3, PHP.

**Frameworks & Libraries:** ReactJS, NodeJS, VueJS, Flask, NestJS, Django, LangChain.

**Cloud & DevOps:** AWS (Lambda, API Gateway), Serverless, Infrastructure as Code (IaC), Docker, Kubernetes, CI/CD, Git.

**Data & Protocols:** REST APIs, GraphQL, JSON, XML, AJAX, SSO (Single Sign-On), JWT.

**AI/ML:** RAG, LLM, Vector Databases, TensorFlow, PyTorch, Autonomous Agents.

## EDUCATION

<b>Arizona State University</b> <i>Master of Science in Information Technology</i>	<b>August 2023 - May 2025</b> GPA: 4
<b>Poojya Doddappa Appa College of Engineering</b> <i>Bachelor's of Engineering in Computer Science</i>	<b>August 2018 - May 2022</b> GPA: 8.9

- Data Science, Cloud Architecture & Operations, Machine Learning, Network Forensics, Middleware prog. and Security
- Data Structures & Algorithms, AI, Database Management Systems, Object Oriented Programming, Web Development

## CERTIFICATIONS

Google cloud certified, [Research Publication](#), [AWS academy Cloud Architecting](#) , [AWS Cloud Operations](#), [AWS Cloud Security Foundations](#), Runner up AWS JAM-ASU 2024, NPTEL online certification in IOT.

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