

SARATH KUMAR DUNGA

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Software Engineer (M.S., ASU) with 1+ years of experience building and deploying scalable, consumer-facing applications that drive business value. Highly proficient in Python, Typescript, and React, with practical knowledge of AWS services and distributed systems.

EDUCATION

Arizona State University, Tempe, Arizona

Jan 2024 - Dec 2025 (Expected)

Master of Science in Software Engineering

GPA: 3.87/4.00

Indian Institute of Engineering Science and Technology (IIEST), Shibpur, India

Jul 2019 - May 2023

Bachelor of Technology in Electronics and Telecommunication Engineering

GPA: 8.33/10.00

SKILLS

Programming Languages: Python, Typescript, Javascript, C++, Java, SQL, NoSQL, Linux

Web & Cloud: React, Next.js, Node.js, REST API. AWS (Lambda, SQS, Docker, ECR, ECS concepts), GCP, Kubernetes, CI/CD

AI/Machine Learning: TensorFlow, Pytorch, Generative AI, Agentic AI, LLMs, RAG, Model Context Protocol, LangChain, LangGraph, Qdrant

Relevant Skills: Data Structures and Algorithms, Distributed Systems, Operating Systems, Cloud Computing, Object-Oriented Programming (OOP), Project Management, Git

EXPERIENCE

ATOMS.TECH | AI-Powered Systems Engineering Intern

May 2025 - Aug 2025

Python | Model Context Protocol | Typescript | GitHub Actions | Docker | Requirements Engineering | GCP

Remote

- **MCP Server Development:** Built and deployed a production-grade Python backend server to bridge legacy requirements data with AI tools, a core service that **cut down manual traceability time by 40%** for multiple engineering teams.
- **AI Integration:** Integrated Anthropic's Claude API to enable conversational requirements analysis, allowing engineers to instantly identify test owners and dependencies through secure authentication and real-time querying.
- **Team Leadership:** Led a 4-person cross functional team (platform, backend, frontend, DevOps) and collaborated with 3 senior stakeholders to deliver enterprise-grade requirements solutions for safety-critical systems across automotive, aerospace and healthcare.

Ira A. Fulton Schools of Engineering - ASU | Supplemental Instruction Leader

Aug 2024 - May 2025

Data Structures | Algorithms | C++ | Java | System Analysis & Design | Operating Systems | Linux | C

Tempe, Arizona

- **Instructional Excellence:** Mentored **100+ undergraduates** in 25+ weekly sessions across core courses (Algorithms, OS, and Enterprise Software) delivering deep-dive workshops on graphs, complexity analysis, and recursion strengthening technical problem-solving.
- **Recognized Leadership:** Awarded the **SUN Award** for Exemplary Service (Spring 2025) for demonstrating leadership and providing exceptional support that drove student success in challenging, high-enrollment technical classes.

PROJECTS

GistiFi AI Summarizer | [Chrome Extension](#) (Published on Google's Chrome Web Store) | [\[GitHub\]](#) | [\[Video Demo\]](#)

Javascript | Chrome storage API | Google Gemini 2.0 | Manifest V3 | Dom Manipulation | Text Scraping | Generative AI

- **Dual-Mode AI Product Development:** Architected, developed, and published a Manifest V3 Chrome extension (a consumer-facing product) using Javascript and Generative AI for multi-format content summarization and specialized LeetCode Mode.
- **Features and Architecture:** Engineered LeetCode-specific user-demand features (guide mode, stuck mode, resources, complexity analysis mode) which increased user productivity by **3X** on LeetCode platform.
- Set to release Version 2.0 with significant user upgrades and achieved 8X growth in **250+ pre-registrations** within the ASU community.

Dementia Care Ecosystem | MS Capstone Project | Advisor: Ayca Tuzmen, ASU | Agile/Scrum Team: 5 Engineers

Python (Flask) | Kotlin (Jetpack Compose) | PostgreSQL | REST API | Android Studio | Docker | Usability Testing

- **Clinical Data Automation & Efficiency:** Reduced manual logging time by 60% by automating cognitive data capture (MMSE components) via a full-stack, multi-role mobile application for Dementia Patient Care.
- **Architectural Design & Security:** Designed and implemented a modular MVC system architecture featuring JWT authentication, role-based access control (RBAC) and Strategy Pattern for severity-based alert escalation.
- Collaborated in a 5-person Agile team over 6 sprints, driving unit, integration, and UI testing using GitHub/version control.

CLUB ACTIVITIES & ACHIEVEMENTS

- **HACKER DEVILS (ASU):** Led the LeetCode-Hard sections, fostering a competitive coding community for 150+ CSE & IT students at ASU.
- **GAABESU AFE Award:** Awarded the **BECAA-Maharashtra Fellowship** by GAABESU for superior academic merit in the 2020-21 cohort.