

PREETAM MASKE

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EDUCATION

Master of Science MS, Computer Software Engineering

Aug 2024 - Present

San Jose State University, San Jose, California

Coursework: Systems Software Engineering, Cloud Technologies, Mobile Application Development, Cloud Services

Bachelor of Engineering, Computer Engineering

Jul 2018 - Jul 2022

Savitribai Phule Pune University, India

Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Management, Cloud Computing

TECHNICAL SKILLS

Languages: Python, JavaScript, C, C++, Java, SQL, Dart

Tools & Frameworks: NodeJS, Angular, Flutter, Flask, Reflex, Kafka, HTML, CSS, Git, Shell Scripting, Kafka

Cloud & Database Technologies: AWS, Cloud Architecture, GCP, Firebase, MySQL, MongoDB, Redis

WORK EXPERIENCE

Software Engineer, Volkswagen Group Technology Solutions, Pune, India

Aug 2022 - Jul 2024

- Developed interactive user interfaces using Angular and backend APIs with NodeJS for IRIS, an OCR-based invoice processing system, while also providing end-to-end application support for over 1000 users across two locations—resolving escalations, monitoring performance, and ensuring reliable system availability.
- Managed Flask-based REST APIs integrated with Microsoft's Computer Vision OCR and MongoDB; automated deployments via Atlassian Bamboo and Shell scripting, delivering code from Bitbucket to IIS servers efficiently.
- Handled AWS infrastructure tasks including setup and administration of EC2 instances, configuration of security groups, and deployment of a Flask application—ensuring secure, scalable, and production-ready cloud hosting.
- Owned complete development lifecycle of Spare Parts Portal, handling requirement gathering, development, deployment, documentation, and feedback integration to deliver a fully functional, client-facing solution.

Software Developer Intern, Whiz Key (OPC) Pvt Ltd

Oct 2021 - Dec 2021

- Engineered a real-time dashboard using Node.js, HTML, and ExtendedJS to monitor and visualize sensor data, enabling daily tracking, analysis, and reporting for improved operational insights.
- Implemented backend logic and data flow for the dashboard to ensure accurate, real-time updates from sensors; collaborated with the team to integrate visual components and improve performance.
- Designed and implemented a wireframe for a home automation app using Flutter, contributing to the project's initial user interface design and ensuring a smooth, user-friendly experience across mobile platforms.

Application Developer Intern, Simba Developers

Jan 2021 - Jul 2021

- Built and tested core features of a cross-platform social media application using Flutter and Dart, focusing on performance, UI consistency, and seamless user experience across devices.
- Collaborated on application integration, conducted thorough code reviews to maintain quality standards, and assisted fellow developers in debugging and enhancing key modules of the app.
- Led technical training sessions and mentored a team of six interns in Flutter, GitHub, and Firebase; conducted research to identify optimal backend architecture and database solutions for scalable implementation.

ACADEMIC PROJECTS

AlphaRescue: AI-Driven Emergency Dispatch System

- VAPI, a voice-based assistant powered by Gemini, transcribes live distress calls, summarizes conversations on the fly, filters false alarms, and generates concise, actionable incident briefs for efficient emergency response.
- Specialized Fetch.ai uAgents deployed on AgentVerse collaborate to evaluate situation severity, query a RAG pipeline on Supabase for nearest suitable facilities, and classify ambulance types using Groq's LLM.
- A real-time incident dashboard built with Mapbox and Vercel displays active emergencies, responder locations, and dispatch progress, providing situational awareness and streamlining coordinating between first responders and control centers.

Fluento – Language Learning App

- Created a cross-platform language learning application with interactive tutorials, quizzes, and gamified elements to boost user engagement and improve learning effectiveness.
- Designed and implemented an intuitive user interface using Flutter and Dart, ensuring seamless cross-platform experience for both Android and Website users.
- Integrated Firebase for real-time database updates, secure user authentication, and efficient data handling—enhancing app scalability, reliability, and overall performance.

ACHIEVEMENT

UC Berkeley AI Hackathon 2025 – “Best Deployment on Agentverse” (Fetch.ai). Awarded for AlphaRescue: a fully autonomous first-responder system that processed live distress-call voice input via VAPI & Gemini, orchestrated uAgent workflows on Agentverse, and simulated dispatched aid on Mapbox dashboard.