

Sampat Choudhary

Bangalore, IN

sampat0choudhary@gmail.com

+91 9251374401

 Sampat Choudhary

Education

Indian Institute of Technology, Kanpur

Bachelors of Technology in Electrical Engineering

Kanpur, IN

2016 - 2020

Work Experience

Prodigal

Sr Software Engineer

Bangalore, IN

April 2025-current

- Collaborated with a team to develop and maintain **ProAgent**, a voice AI system that assists debt collectors by engaging consumers through automated phone calls.
- Helped design and build an in-house voice orchestration infrastructure enabling real-time voice calls integrated with an LLM-powered agent. Gained hands-on experience with technologies such as **LiveKit**, **Deepgram STT**, **Google STT**, and **ElevenLabs TTS**.
- Created multi-state prompt flows and implemented tools to support **multi-agent systems**, enabling scalable solutions for **multi-tenant** deployments.

Microsoft

Software Engineer II

Bangalore, IN

Feb 2024 - April 2025

- Designed **user and S2S authentication and authorization layers** for the v2 Viva Goals services, and **implemented a generic authentication NuGet package** that provides APIs for secure user and S2S authentication across all Viva Goals services and beyond, using Microsoft's standard .NET libraries.
- Worked with various internal teams to enable authentication for the new Viva Goals application and its services, such as Copilot and other integrations.
- Implemented **Continuous Access Evaluation** for Viva Goals to enhance security and make the product ready for selling to the Financial Services Industry.
- Became the SME and owner for authentication for Viva Goals services. Learned about Microsoft's security standards and best practices for **user authentication**, **S2S authentication**, **PoP authentication**, **client credential grant**, and **Continuous Access Evaluation** (allowing admins to revoke user access at any time), etc.
- Built a background worker host service using **Azure Event Hub** and **Azure Functions** to asynchronously push audit logs from the Viva Goals application to the M365 audit service, implementing CI/CD pipelines to deploy the service to Azure Kubernetes.

Bangalore, IN

Nov 2021 - Feb 2024

Software Engineer I

- **Designed and implemented a scalable and extensible permission model** for the OKR application, managing resource permissions across users, groups, and teams. Became the SME for the app's permission model.
- Developed an **ASP.NET Core authentication** service using **MISE** and **SAL** NuGet packages to enhance security for non-.NET applications. Owned the full lifecycle, including **design**, **development**, **CI/CD pipelines**, and **AKS deployment**. Integrated with a **Ruby on Rails application** and became the SME for authentication validation.
- Optimized application performance by **identifying and redesigning slow-running APIs, background jobs, and complex database queries**.
- Collaborated with the **Microsoft AuthNZ** team to improve authentication security by enabling **PFT tokens** and built extensible utilities for **S2S communication** with Microsoft services. Worked closely with the **Copilot team** to implement authentication for **Substrate LLM APIs**, contributing to the GA readiness of the Copilot feature.
- **Developed multiple UI components** and their automation using **ReactJS**, **AngularJS**, **FluentUI**, and **Selenium**, gaining hands-on experience across various projects.
- **Mentored** interns and new hires in **Ruby on Rails**, **.NET**, and application design, guiding them through multiple projects and best practices.
- **Collaborated cross-functionally** with internal teams on permissions and authentication matters, driving effective **teamwork** and **communication**.
- Served as an on-call engineer, monitoring application availability and addressing production issues in real-time. Collaborated with principal engineers across multiple time zones to resolve customer incidents, live site issues, and outages efficiently.

Ally.io

Software Engineer

Chennai, IN

Aug 2020-Oct 2021

- Revamped the admin application by adding multiple features to address frequently asked requests quickly for the Customer Support team. Single-handedly implemented all the features end-to-end. Gained first-hand experience in **Ruby on Rails** and **jQuery**.
- Developed many features end-to-end using **AngularJS** and **Ruby on Rails**. Built a deep understanding of the Ruby on Rails framework.
- Implemented various background jobs using **Sidekiq**, thereby gaining hands-on experience with background job workflows and design.
- Implemented important features for a data insights service using **Golang** and **MongoDB**. Gained hands-on experience with the **Golang framework** and **MongoDB queries**.

Patent Experience

- Conceived, designed, and implemented a solution for managing alignment permissions of multi-nested OKRs, resulting in a patent titled **Dynamic Control of Multi-Nested OKR Alignment**.
- Collaborated with cross-functional teams to identify patentable ideas and navigate the patent filing process.
- Successfully obtained patent number **MS 412647-US-NP** for the invention, demonstrating a unique and valuable contribution to Microsoft.

Side Projects

- Developed an **agentic code assistant** using **Python FastAPI**, and **LiteLLM**, integrating **LangSmith** APIs to enable intelligent code modification and automation.
- Built a complementary **CLI frontend tool** that interprets agent responses and executes necessary actions directly in the user’s development environment.
- Created an agent capable of **analyzing existing codebases**, understanding their structure and functionality, and implementing requested changes based on natural language prompts.
- Implemented robust error handling and context management to ensure accurate code modifications while preserving the original codebase’s integrity.

Skills and Interests

- **Programming Languages:** C#, Ruby, JavaScript, C, C++, Java, Python
- **Database Management:** SQL, Postgres, MongoDB, Redis, Azure Cosmos
- **Web Development and automation:** ASP.NET, Ruby on Rails, AngularJS, ReactJS, FluentUI, Selenium
- **Additional Skills:** Azure, AWS, Git, Docker, Kubernetes, Go, Golang, Bash, Apache Kafka, AWS SQS, FastAPI, LangChain, LiteLLM, LangSmith