Pulkit Mundra

Senior Software Developer (SDE-3)

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WORK EXPERIENCE

SDE-3 02-2025 – Present
Turing Global India Private Limited
- Built **MCP toolkits** for **Google Gemini**, cutting tokens **58%** & lifting accuracy **+7.7pp**.
- Architected stateful simulations across **75+ apps** in **Python, Pydantic v2 & SQLModel**.
- Enhanced **Meta** codebase reasoning and built **Google ADK plugins** & **Docker** benchmarks.

Senior Software Developer 04-2024 – 02-2025
Cogent Infomedia
- **Built AI chatbot** framework in Django, cutting workflow completion time **50%**.
- **Led AI team** using localized LLMs for intent decoding.
- Created **RAG systems** and AI OCR tools, improving accuracy and productivity.

Arcgate

> **Senior Software Developer** 09-2023 – 04-2024
> - **Managed** fintech **SDK team of 5** delivering secure banking, wallet & ACH APIs.
> - **Implemented audit logging** & **permission** modules for compliance.
> - **Mentored juniors** and optimized workflows for faster releases.
>
> **Software Developer** 12-2021 – 09-2023
> - Developed **fintech** & **tracking** apps in Django.
> - **Automated job scheduling**, cutting average execution time by **50%**.
> - Integrated secure payment APIs and scaled high-traffic apps.

Python Developer 08-2020 – 12-2021
LaNet Software Solutions
- Built **Angel Investing & Crypto Indexing** platforms in **Flask**.
- Set up **AWS CI/CD pipelines,** cutting deployment time **83%**.
- Delivered scalable, secure **REST API** solutions for investments.

TECHNICAL SKILLS

Agentic AI • LLM Evals • CI/CD • Python • Django • Flask • Pydantic v2 • LLMs • Google ADK • FastAPI • AWS Lambda • MCP • RAG • SQLModel • Microservices • LiteLLM • Gradio • ChromaDB • MongoDB • SQLite • PostgreSQL • Docker • Redis • AWS • EC2 • S3 • Azure • Plaid • Dwolla • Sila • Pytest • Scrum • Git

EDUCATION

B.Tech (CS) 2017 – 2021 | Udaipur, India
Rajasthan Technical University (RTU)

CBSE Class XII 2016 – 2017 | Udaipur, India
MDS Senior Secondary School

PROJECTS

Gemini Agentic Tool-Use: 75+ MCP Service Simulations & ADK Plugins

- Engineered **stateful Model Context Protocol (MCP) servers across 75+ services** (Gmail, Slack, Jira, GitHub) in **Python, Pydantic v2 & SQLModel** for **Google Gemini**.
- Designed **ergonomic MCP tool wrappers** cutting payloads **88%** and schema tokens **58%**, driving a **+7.7pp accuracy gain** (**~99% solvability**).
- Built cross-service **Google ADK agent plugins** with a **Gradio** streaming UI, plus containerized multi-turn benchmarks (**Docker & Pytest**).
- Authored reusable AI developer skills and validation harnesses cutting per-service delivery from **days to hours**.

Crunchyroll Ubuntu Desktop - Smart Auto-PiP Client

- Built an open-source **Linux desktop client** in **Electron + Widevine DRM** with persistent sessions & **Ubuntu GNOME/Wayland** integration.
- Engineered an always-on-top **Picture-in-Picture (PiP) controller** preserving native subtitle rendering across workspace transitions.

Galaxy Buds3 Pro - Ubuntu & Android Seamless Switcher

- Built a **Linux & Android daemon** for multipoint-like audio switching and call handoff on **Samsung Galaxy Buds3 Pro**.
- Integrated a **BlueZ/PipeWire daemon**, a native **GNOME Shell top-bar extension**, and an **Android Kotlin UDP call monitor**.

Home Care Agency Software

- Automated complex workflows using a **self-developed AI chatbot framework** in Django, cutting workflow time by **50%**.
- **Led the AI team** using localized **Large Language Models (LLMs)** to decode user intent and automate everyday tasks.
- Implemented **Retrieval-Augmented Generation (RAG)** knowledge bases and **AI OCR** tools for document & plan automation.

Fintech: Banking, Digital Wallet & ACH Payments APIs

- Developed **30+ APIs for a Django-based project**, integrating banking, digital wallet, and ACH payments across **18+ releases**.
- Automated complex job scheduling tasks, **reducing average job execution time by 50%** in critical financial operations.
- Authored a Python **SDK** and oversaw **4 additional SDKs** exposing customer APIs across **12+ software releases**.
- Developed **Audit Logging** and **permission modules** for regulatory compliance and secure admin access control.

Angel Investing and Venture Capital WebApp

- Developed **6 portals with 30+ permissions**, adding granular access control and data privacy.
- Integrated **AWS Route53, SES, EC2, and S3** alongside a payment gateway for seamless investment transactions.
- Built an automated **AWS CodeDeploy CI/CD pipeline**, **reducing deploy-time overhead by 83%**.

MILESTONES

- **Mentored and led 2 batches of freshers**, fostering their growth and development through daily scrums, knowledge sessions, and tech talks.
- Managed **concurrent responsibilities across 3 projects** while providing mentorship to a team of newly hired professionals.