

SHIPRA GUPTA

Software Engineer 2

@ shipragupta1411@gmail.com

+91 9413440297

in shipra-gupta-

Shipragupta14

India

SUMMARY

Software Engineer with **7+ years** building secure, cloud-native platforms across Azure and AWS. Strong in system design, microservices, and CI/CD automation using AI agents/tools. **Targeting Senior Software Engineer roles.**

EXPERIENCE

Software Engineer 2

Microsoft

Apr 2022 – Present

Noida, India

- Led the migration of **100+ CI/CD pipeline stages** from a legacy system to modern, standardized YAML-based templates, improving security and compliance while retiring outdated build infrastructure. Authored the end-to-end system design document for the migration, **balancing scalability with security**, and partnered with the China and US teams to align on the approach and secure go-ahead for rollout.
- Embedded automated security & compliance gates directly into the migrated pipelines, reducing deployment & security risk by **~40%** and eliminating **~10 hrs/week of manual compliance review**.
- Built a Claude-based AI agent automating end-to-end sprint reporting from live ADO data, cutting report-compilation time by **~95% (30-60 min to ~90 sec)**, auto-flagging workflow risks (carry-overs, PBI/PR bottlenecks), and shipping **3 role-specific report modes** adopted across multiple teams.
- Designed and developed a buildout framework for **40+ microservices** (compute and non-compute resources) using ARM templates and pipelines, reducing manual intervention by **~95%** and accelerating deployment cycles; authored a detailed runbook to streamline service-owner onboarding and operations.
- Developed the ODSPDoc Buddy Chatbot leveraging Azure Cognitive Search to query organizational/project documents and wikis, reducing knowledge-discovery time by **~50%**.

Software Engineer

Paytm

Mar 2021 – Mar 2022

Noida, India

- Developed and optimized REST APIs for onboarding IoT devices on AWS Cloud, enabling secure device registration using X.509 certificates, transaction notifications, and transaction-summary retrieval.
- Implemented caching using Redis, reducing **~1 million database hits/day** and improving device Authentication ID fetch latency from **200ms to ~80ms (~60% gain)**.
- Integrated AWS IoT Device Defender to enhance security and compliance, protecting large-scale IoT device fleets against abnormal behavior and unauthorized access.

Software Engineer

SAMSUNG

June 2019 – March 2021

Noida, India

- Developed the Stress and SpO2 (blood-oxygen) trackers in the Samsung Health app on Wear OS, serving **millions of users** on Samsung smartwatches during the COVID-19 period.
- Supported Samsung Pass module development, enhancing secure storage of app credentials and payment-card details; debugged and resolved API and UI issues, improving stability and performance.

Software Engineer Intern

SAMSUNG

Jan 2019 – Apr 2019

Noida, India

- Worked on the adaptive brightness feature for Samsung mobile devices, leveraging camera-based ambient-light detection to dynamically adjust screen brightness, improving user experience and battery efficiency.

SKILLS

Java

C#

C

Python

Kotlin

SQL

Spring Boot

.NET

REST APIs

Distributed Systems

Azure

AWS

Azure DevOps

YAML Pipelines

ARM Templates

PowerShell

CI/CD

Git

AI Agents

AgentChat

AutoGen

Operating System

Agile/Scrum

Android

Wear OS

OOP

Data Structures

Algorithms

DBMS

NoSql

Kafka

EDUCATION

B.Tech in Computer Science

The LNMIIT

📅 2015 – 2019

📍 Jaipur, India

- Relevant coursework: Basic & Advanced Data Structures, DBMS, OS, OOPS, SOLID Principles

PROJECTS

- **Time Speaks (Add-on):** Browser extension that keeps track of how much time you spend on each tab. Tech Stack – JavaScript, HTML, CSS.
- **URL-Shortener (Add-on):** Chrome extension built using the Google URL Shortener API. Tech Stack – JavaScript, HTML, CSS.
- **Online Music Store (MusicMania):** Users can play or download any song in the library. Tech Stack – Java, JSP/Servlets, MySQL.

ACHIEVEMENTS

- Time-Speaks, a browser add-on, was **published on Mozilla** in July 2017.
- Secured **All India Rank 10,558** (top 0.1%) in IIT-JEE Advance 2015.
- Represented college in **Badminton at Desportivos 2016–2018**, the annual sports fest of LNMIIT, Jaipur.