

SHAMBHAVI MISHRA

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[LinkedIn](#) — [GitHub](#) — [Portfolio](#)

EXPERIENCE

Associate Software Engineer, Atlassian

Aug 2025 – Present

- Design and build **AI-powered product capabilities** improving developer workflows and knowledge discovery.
- Develop **agentic AI systems** integrating LLM reasoning with internal knowledge sources.
- Implement **RAG pipelines** and **LLM evaluation frameworks** to improve answer reliability.
- Experiment with **multi-agent orchestration** for automation and developer productivity.

Software Engineering Intern, JPMorgan Chase & Co.

Jan 2025 – Jun 2025

- Architected a **document validation microservice** processing millions of identity PDFs and images.
- Built OCR extraction pipelines using **EasyOCR** and **PyMuPDF** to structure unstructured documents.
- Implemented rule-based validation ensuring compliance and data accuracy.
- Deployed scalable services on **AWS ECS (Fargate)** using **Terraform** and **Aurora PostgreSQL**.

Software Engineering Intern, Atlassian

Jun 2024 – Jul 2024

- Developed the **Facts-Map Visualizer**, an interactive dependency graph explorer for monorepos.
- Migrated APIs from REST to **GraphQL**, improving data retrieval efficiency by **30%**.
- Built dependency visualization tools using **React** and **vis.js**.

PROJECTS

Hira – Agentic AI Interview Coach

[GitHub](#)

- Built a **multi-modal AI interview system** combining voice interaction, resume understanding, and coding evaluation.
- Designed **agentic interview workflows** generating adaptive follow-up questions and performance feedback.

Draftly – AI Cloud Architecture Generator

[GitHub](#)

- Developing a system converting **natural language descriptions into cloud architecture diagrams**.
- Supports automated **multi-cloud infrastructure design** for AWS, Azure, and GCP.

BodyBuddy – AI Exercise Posture Analyzer

[GitHub](#)

- Built a computer vision system analyzing exercise posture using **pose estimation models**.
- Generated real-time feedback by comparing user body keypoints against reference movements.

TECHNICAL SKILLS

Languages: Python, Java, Go, TypeScript, JavaScript, C++, SQL

AI Systems: Large Language Models, Agentic AI, RAG, MCP, Prompt Engineering, Model Evaluation

Backend: Node.js, Express.js, Spring Boot, GraphQL, REST APIs

Frontend: React, Next.js, HTML, CSS

Cloud / Infrastructure: AWS, Docker, Terraform, ECS

ML / Data: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy

EDUCATION

B.Tech – Computer Science, Amity University

2021 – 2025 CGPA: **9.20 / 10.0**

B.S. – Data Science, IIT Madras

2021 – 2025

CERTIFICATIONS

[AWS Certified Solutions Architect – Associate](#)

[Cisco CCNA: Introduction to Networks](#)

ACHIEVEMENTS

JPMorgan Code for Good 2024 – **2nd place** among 40 teams selected from 50,000+ applicants

Recipient of **AWS AI & ML Scholarship**