



# ARHAAN GIRDHAR

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## SUMMARY

CS undergrad shipping real-world AI, from agentic automation at Amazon to counterfeit detection pipelines at Questel. Co-authored an RL research paper, led teams across 5+ international hackathons, and built full-stack systems for freelance clients. A builder with a bias for impact and a habit of turning complex problems into production-ready software.

## EDUCATION

### Manipal Institute of Technology, Manipal

Aug 2022 - Aug 2026

- B.Tech in Computer Science and Engineering ( AI & ML )

*Relevant Courses* : Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Artificial Intelligence, Software Engineering, Machine Learning, Computer Vision, Deep Learning, Reinforcement Learning, Database Management, Parallel Programming, Web Development.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, SQL

**Frameworks & Libraries:** Spring Boot, FastAPI, Django, Flask, Next.js, Node.js, React Native

**Databases & Messaging:** PostgreSQL, MySQL, Redis, SQLite

**DevOps & Cloud:** Docker, Kubernetes, AWS (EC2, S3, RDS, Lambda), Azure, Nginx, GitHub Actions, CI/CD

**AI & Agents:** LangChain, MCP, Agent SDK, RAG, LLMs, PyTorch, TensorFlow, Scikit-learn, OpenCV, AWS (Bedrock, State Machines)

## WORK EXPERIENCE

### Software Developer Intern | Amazon

Jan 2026 - Jun 2026

- Architected and deployed scalable agentic automation workflows using LangChain, MCPs, and Agent SDK, eliminating manual operational bottlenecks across multiple internal teams and driving a significant reduction in execution time and overhead.
- Designed and implemented a suite of high-impact automation tools by engineering JavaScript functions and seamlessly integrating them via Java clients, adopted across Amazon internal teams to eliminate redundant manual processes and accelerate operational throughput at scale.

### Artificial Intelligence & Machine Learning Intern | Concur IP ( A Questel Company )

May 2025 - Jul 2025

- Built and deployed ML-assisted scraping pipelines that automated counterfeit monitoring across 20+ global platforms, enabling protection for 15+ brands and reducing manual review time by 75%.
- Executed advanced filtering algorithms that improved detection accuracy by 40%, enabling quicker identification of IP violations, reducing false positives, and decreasing enforcement team response time by 30%.

## PROJECTS

### TaskStream | Personal Project

[LINK](#)

- Engineered a distributed job queue system in Java and Spring Boot backed by Redis, supporting DAG-based dependency management, priority queuing, distributed locking, and dead letter queues with automatic retry across horizontally scaled nodes.
- Containerized and deployed the full system using Docker and Nginx load balancing, with PostgreSQL for job metadata persistence and Liquibase for schema migrations, enabling fault-tolerant task distribution across multiple producer and worker clusters.

### Ceaser Tool | Questel

[LINK](#)

- Designed an agentic AI platform that autonomously monitored 30+ global marketplaces for counterfeit activity, combining LLM-powered reasoning, automated web scraping, and computer vision for real-time brand protection.
- Engineered end-to-end agentic workflows integrating ML inference, browser extension apps, and sub-2s dashboards, enabling autonomous detection and escalation of IP violations across 15+ brands.

## CERTIFICATIONS

- Programming with Java** | AWS
- Meta Backend Developer** | Meta
- Cloud Core Fundamentals** | Google
- Foundations of AI and ML** | Microsoft

## ACHIEVEMENTS

- Co-authored a research paper** on reinforcement learning for musculoskeletal modeling, applying AI to simulate human biomechanics.
- Achieved an All India Rank (**AIR**) of **171** in the MET competitive exam.
- Led cross-functional teams in **5+ international hackathons**, including HackWithInfy, Bolt.new, and Adobe and many more.
- Freelanced 5 production web applications end-to-end, owning design, development, and deployment independently.