Mayank Padia

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EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY, MESRA
B.E., Computer Science and Engineering
Graduated in 2021 | CGPA: 8.29

PROJECTS

ONLINE JUDGE
Sept 2021 – Feb 2022

- Spearheaded backend development of a **code evaluation engine**, leading a **3-member team** to implement **multi-language code submission**, concurrent processing, **contest hosting**, and automated rank-list generation.
- Containerized services with **Docker** and established **CI/CD pipelines**.
- Technologies: **Java**, **Spring**, **MySQL**, **AWS S3**, **SQS**

HACKEREARTH AND CODECHEF | Problem Setter
Oct 2019 - Jul 2021

ACHIEVEMENTS

- **O2O Awards:** Fast Learner, Clean Design, Fast Implementer (@Observe.AI)
- **Qualified for the ICPC Asia Amritapuri Regional Contest twice**: Credentials
- **Candidate Master, CodeForces:** Maximum Rating **2028**
- **Top 100:** Global Rank **99** among **10,000+** contestants in Circuits '20
- **5 Star Rated, CodeChef:** Maximum Rating **2066**
- Best Finishes:
- CodeForces:
  CF #557 — **15 Global** / **3 India**
  CF #658 — **20 Global** / **4 India**

SKILLS

- **Languages:** Java, C/C++, Python, SQL
- **Backend:** Redis, Kafka, gRPC, MySQL, MongoDB, SQS, Flink, Cosmos DB
- **AI/LLM & RAG:** Prompt Engineering, Gemini/OpenAI APIs, Whisper, Claude, Cursor, CodeX
- **Cloud & DevOps:** AWS (EC2, S3, AppConfig, Lambda, API Gateway, IAM), Docker, CI/CD
- **Monitoring & Reliability:** Prometheus, Grafana, NewRelic
- **Tools:** IntelliJ, GitHub, Linux, VS Code, noSQLBooster, Offset Explorer, Cursor
- **Core Skills:** System Design, High/Low-Level Design, Distributed Systems, Debugging & Optimization, on-call rotations, code reviews.

EXPERIENCE

MEDIA.NET | Software Developer II
Mar 2026 - present Bengaluru, India

- Redesigned a core selection-criteria table and supporting services to enable **region-based configuration** and **workflow customization**, reducing **GCS storage costs by 30%**, **ClickHouse CPU usage by 20%**, **serving-layer memory usage by 25%**, and **serving-layer CPU usage by 15%**.
- Built a **model-driven inference service** to predict optimal tuple size, delivering **3% revenue upside** for the target cohort compared with turing's historical-data-based approach.
- *Tech:* **Java**, **ClickHouse**, **GCS**, **PostgreSQL**, **Kubeflow**

OBSERVE.AI | Software Developer Engineer II
Nov 2024 – Dec 2025 Bengaluru, India

- Re-architected the Kronos microservice to reliably process **5+ million** daily calls with zero downtime, strengthening the scalability and production reliability.
- Redesigned the data backfill pipeline using token-based (Leaky Bucket) rate limiting with **adaptive prioritization** and **account-level throughput controls**.
- Delivered a **stage-aware reconciliation engine** with atomic MongoDB claims, stage-wise retry limits, and automatic recovery for failed or stuck jobs, improving pipeline reliability; **mentored** a newly hired SDE II on the system architecture and implementation.
- *Tech:* **Java**, **Spring Boot**, **SQS**, **MongoDB**, **Kafka**, **Kubernetes**

WALMART GLOBAL TECH | Software Engineer 3
July 2021 – Nov 2024 Bengaluru, India

- Built and maintained a highly **reliable**, **scalable** order management platform for Walmart's US e-commerce.
- Led initiatives driving a projected **$500M** increase in GMV.
- Migrated systems from **Java 8** to **Java 17**.
- Mentored an SDE intern and a newly hired Software Engineer II, supporting their technical development.
- Tech: **Java**, **Spring**, **Kafka**, **K8**, **Cosmos DB**

INSTABASE | Software Engineer Intern
Jan 2021 – June 2021 Bengaluru, India

- Developed DOCX/Excel parsers to extract entities and export to JSON, adopted by **Goldman Sachs**.
- Integrated test runner with Jenkins; refactored **70%** of golden tests.
- Tech: **Python**, **K8**, **Redis**

AMAZON | Software Engineer Intern
May 2020 – June 2020 Bengaluru, India

- Designed algorithm to compute optimal camera placements for Amazon Go stores.
- Built an analyzer and evaluation tool to assess solution efficiency.
- Tech: **Python**, **Git**