

Lajat Manekar

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EXPERIENCE

- Human Resocia** Tokyo, Japan
Feb 2024 – Present
 - Backend Engineer
 - Tech Stack** C++, Python, Perl, Shell, Ansible, AWS, Jenkins
 - Delivered advanced, scalable backend modules improving system functionality by 18%, enhancing core features and user satisfaction.
 - Collaborated closely with support and engineering teams to reduce incident response times by 30%, drastically boosting uptime to 99.9%.
 - Built a robust automated testing pipeline with 90% coverage, cutting manual tests by 40% and dramatically speeding deployments by 20%.
 - Refactored 5,000+ lines of legacy code to improve maintainability and scalability; led 20+ comprehensive knowledge-transfer sessions.
 - Optimized overall system performance by 20% via modern libraries, improved algorithms, and innovative new high-performance modules.
- ElasticRun** Pune, India
Jan 2022 – Jan 2023
 - Associate Software Engineer
 - Tech Stack** Python, JavaScript, TypeScript, Dart, Flutter, Angular, AWS, MongoDB, Docker, Jenkins
 - Expertly engineered 20+ custom algorithms aligned with key stakeholder goals, improving project accuracy and operational efficiency.
 - Successfully led migration of 20,000+ lines from Angular to Flutter, significantly enhancing app performance and reducing critical defects.
 - Proactively mentored interns across 10+ complex legacy projects, accelerating onboarding and improving overall code quality.
 - Delivered targeted optimizations increasing module throughput by 12%, substantially enhancing overall user experience.
 - Strategically drove multiple in-house projects achieving 15-20% efficiency gains and significantly boosting user satisfaction by 15%.
 - Designed scalable cloud container environment, dramatically increasing team productivity and deployment speed by 20%.

PROJECTS

- Comprehensive Augmented Reality (AR) Dictionary** [Source Code](#)
 - Tech Stack:** C#, Unity, ARCore, Google Custom Search API, Tesseract, OpenCV, NLTK
 - Engineered an AR dictionary app leveraging OCR and NLP to analyze 500+ words/session with 92% accuracy, delivering contextual definitions instantly.
 - Optimized ARCore pipelines, cutting overlay latency by 35% and accelerating user query response from 12s to 7.8s.
- ETL-Batch-Processing** [Source Code](#)
 - Tech Stack:** Apache Hadoop, Spark, Sqoop, Kafka, Flink, Tableau, Python, AWS EMR
 - Designed and deployed a distributed ETL pipeline processing 20M+ records daily, slashing query times by 60%.
 - Automated real-time data ingestion using Kafka and Spark on EMR; enabled live Tableau dashboards, reducing reporting latency from hours to minutes.
- Realtime Collaborative IDE (ideinnit)** [Website](#)
 - Tech Stack:** YJS, Monaco (desktop), Codemirror 6 (mobile), LSP via Modal, Svelte 5/Kit, Tailwind CSS 4, Firebase Realtime DB, Playwright
 - Developed a real-time collaborative IDE delivering 99.8% state consistency and <500ms latency, supporting 2,000+ monthly code submissions.
 - Integrated mobile and desktop editors with robust LSP-based IntelliSense and 95% Playwright test coverage, ensuring high reliability.

EDUCATION

- Georgia Institute of Technology** Georgia, United States of America
Jan, 2026 - Present
 - Masters in Computer Science (Specialization in AI); -
Courses: Knowledge Based AI, High Performance Computing
- Vishwakarma Institute of Technology** Pune, India
Aug, 2018 - July, 2022
 - Bachelors in Technology; CGPA: 7.98
Courses: Object Oriented Programming, Operating Systems, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Network Security.

SKILLS

- Languages** C, C++, Dart, JavaScript, Perl, Python, Shell scripting, SQL, Typescript
- Frameworks** Angular, Django, Flask, Flutter, Frappe, React
- DevOps & tools** AWS, Azure, Clang, Cobertura, Docker, Firebase, Jenkins, GCP, GIT, JIRA, Kubernetes, LLVM, Postgres
- Coding Profiles** [Codechef](#), [Codeforces](#), [Github](#), [Leetcode](#)

CERTIFICATIONS AND ACHIEVEMENTS

- Selected as a MariaDB Contributor in GSoC 2023 to lead six-month integration of the [Fuzzing Pipeline](#) into ColumnStore Engine.
- Joined [The-Algorithms](#) Initiative in July 2021, took the responsibility of maintaining the website repository and the C++ codebase.
- Passed [N3 Level of NAT Test](#), demonstrating proficiency in Japanese, including reading, writing, and conversational skills.
- [Certificates](#) across diverse disciplines, including cloud computing, machine learning, DevOps, and software development.