

Rohan Jethwani

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EDUCATION

University of Alberta

Edmonton, AB

BSc. with Specialization in Computing Science

Sep 2022 – Dec 2026

- Key Coursework: Reinforcement Learning, Search and Planning In AI, Data Management, Data Structures and Algorithms, Computer Organization and Architecture (Assembly Programming), Machine Learning I, Software Engineering, Practical Programming Methodology (C Programming)

EXPERIENCE

Machine Learning Developer Intern

June 2024 – August 2024

Arcus360 India Pvt. Ltd.

Pune, MH

- Enhanced data preprocessing by building Python pipelines (NumPy/Pandas) to clean and transform 1000 client records, reducing manual preparation time by 15%
- Developed and fine-tuned classification models using scikit-learn and TensorFlow on historical datasets, improving prediction accuracy from 70% to 80%.
- Designed interactive dashboards in Tableau and Power BI by integrating sales and operations data, shortening report generation time by 20%.
- Automated Salesforce CRM integration by scripting ETL jobs in Python and deploying them via AWS Lambda, ensuring real-time sync for 500+ contacts and boosting data accuracy by 20%
- Led cross-functional knowledge sharing by conducting weekly sessions on ML best practices and BI storytelling, uplifting team productivity metrics by 15% through deeper technical upskilling

PROJECTS

Ocelot-Novels | Java, UML, Firebase, CI/CD, JUnit, Android Studio, Git

September 2024 – December 2024

- Delivered a fully featured Android novel-reading app, meeting 100% of planned user stories within a 4-month sprint, by architecting responsive Kotlin/Java UI components, secure Firebase Authentication, and real-time Firestore synchronization
- Built a scalable backend, ensuring 99% uptime for multiple stored records, by designing and integrating Firebase Authentication for user management and Firestore for structured data storage
- Increased user engagement by 20%, by developing a real-time notification system with Firebase Cloud Messaging and custom in-app listeners to power instant social interactions
- Reduced integration issues by 40% and accelerated releases by 30%, by establishing a GitHub Actions CI/CD pipeline that automates Kotlin/Java builds along with JUnit unit tests and Espresso UI tests
- Boosted location-based feature adoption by 25%, by integrating Google Maps API with geofencing to trigger context-aware content as users entered defined regions
- Improved code quality and reliability, achieving 85% test coverage and cutting regression bugs by 70%, by authoring comprehensive JUnit and Android Instrumentation (Espresso) test suites and plugging them into the CI workflow

Scalable MongoDB Data Pipeline | Python, MongoDB, PyMongo, ETL, JSON, Git

January 2024 – April 2024

- Implemented Python-based ETL with line-by-line JSON reads and 1,000 record batch inserts to load around 20,000 messages into MongoDB without memory issues.
- By applying a MongoDB text index on message content, improved regex keyword-search performance by 23% , supporting faster full-text queries
- By creating ascending and text indexes on sender and message fields via PyMongo, reduced zero-credit sender query latency by 90% , unlocking near-instant analytics on credit data
- By integrating PyMongo's maxTimeMS timeouts with exception handling for long-running operations, ensured uninterrupted execution of database tasks, maintaining system robustness under heavy loads

TECHNICAL SKILLS

Languages: Java, Python, C, RISC-V Assembly, SQL (Postgres), JavaScript, HTML/CSS, R, TypeScript

Frameworks: React, Node.js, JUnit, Tailwind CSS

Developer Tools: Git, MongoDB, Power BI, RARS, AWS, GCP, Firebase, Android Studio, Linux/Unix CLI, APIs

Libraries: pandas, NumPy, Matplotlib, Sklearn, TensorFlow