# 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