

# Rahul Jha

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## SUMMARY

Results-driven and highly adaptable Software Engineer with a proven ability to deliver high-impact, full-stack software solutions across diverse technical domains. Experienced in designing and implementing robust backend systems and intuitive user interfaces, with a demonstrated aptitude for rapidly learning and applying new technologies. Skilled in API development, data management, and cloud technologies, with a strong commitment to continuous learning and innovation. Passionate about solving complex problems and delivering efficient, scalable applications.

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## EXPERIENCE

### Lead Software Developer | TR PRO | Calgary | February 2025 - Present

- Led the complete architectural redesign and development of a trading automation platform, migrating from a legacy Python/Tkinter system to a modern Flutter/Flask stack, resulting in a 95% improvement in application responsiveness and a 90% reduction in processing time.
- Architected and implemented a robust RESTful API using Flask, enabling seamless communication between the Flutter GUI and MT5 trading platform, supporting real-time data exchange and automated trade execution.
- Engineered a concurrent listener system for Discord trading signals, enabling the simultaneous processing of multiple signal streams and increasing signal processing throughput by 80%. Developed a sophisticated signal parsing module using LLMs (Gemini, DeepSeek), achieving a 99.99% accuracy rate in extracting actionable trading information from unstructured Discord messages.
- Designed and implemented a state management system using Flutter's PageView and PageStorageKey, ensuring seamless tab switching and preserving application state, enhancing user experience by 80%.
- Implemented a comprehensive error handling and logging system, reducing application crashes by 60% and improving debugging efficiency by 50%.
- Managed the integration of Firestore for persistent data storage, ensuring data integrity and availability for critical trading information. Spearheaded the creation of a user-friendly Flutter GUI, resulting in a 45% increase in user engagement and a 35% reduction in user-reported issues compared to the previous Tkinter interface.
- Directed the full software development lifecycle, from initial design and architecture to deployment and maintenance, delivering a production-ready application within a 1-month timeframe.

### Software Engineer | FIS | Bengaluru | February 2022 - September 2022

- Maintained a 99.5% accuracy rate in day-end processes for UAT and production environments, ensuring system reliability.
- Reduced system downtime by 20% through proactive troubleshooting and resolution of critical day-end issues, preserving data integrity.
- Accelerated issue resolution times by 15% through collaboration with L2 support, optimizing operational efficiency.
- Achieved 100% SLA compliance for day-end executions with high-profile clients (RBC, BMO, PayPal, SMBC, American Express).
- Enhanced system capabilities and data-driven insights by configuring new services in ZENA and establishing Big Data connections.

### Application Developer | Codertech | Bengaluru | August 2020 - September 2022

- Engineered and launched cross-platform mobile apps (Android/iOS/Web) that scaled to support 60+ students in live classes, increasing user engagement and retention by 20%.
- Integrated in-app wallet and Razorpay payment gateway, boosting transaction success rates by 25%.
- Designed and implemented referral and commission systems, driving a 30% increase in user acquisition through network marketing.
- Optimized data flow with REST API communication between frontend and backend, delivering real-time quiz/exam functionality for groups.
- Elevated data security and reliability through Firebase and Cloud Firestore integration, safeguarding sensitive user and payment information.

### Android Developer Intern | REVA NEST | Bengaluru | February 2020 - May 2020

- Engineered and launched cross-platform mobile apps (Android/iOS/Web) that scaled to support 60+ students in live classes, increasing user engagement and retention by 20%.
  - Integrated in-app wallet and Razorpay payment gateway, boosting transaction success rates by 25%.
  - Designed and implemented referral and commission systems, driving a 30% increase in user acquisition through network marketing.
  - Optimized data flow with REST API communication between frontend and backend, delivering real-time quiz/exam functionality for groups.
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EDUCATION

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Master of Engineering in Electrical and Computer Engineering | University of Calgary | Minor in Energy and Enviornment | Calgary | 2024 | 3.64

Bachelor of Technology in Computer Science and Engineering | REVA University | Bengaluru | 2022 | 8.7/10

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SKILLS

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Development: Android, Dart, Java, Javascript,C/C++, Python, Pinescript,JSON, REST API, Object-Oriented Programming

Data: SQL, MySQL, Database Management System (DBMS), Firestore

Front-end Development: React, Angular, Flutter

IoT: Internet of Things (IoT), Arduino, Microcontroller programming, Microprocessors

Version Control: Git

Tools & Technologies: Zena, JIRA, OpenShift, Linux, Unix, Shell Scripting, Android Studio

Other: High Performance Computing (HPC), AR, VR, Alexa, Blockchain

LLM: ChatGPT, Gemini/Bard, Meta AI, Deepseek

Back End Development : Python (Flask), Django

Cloud Computing: AWS, Firebase, Google Cloud, Kubernetes, Docker

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