# Rajkumar Varsani

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# Education

## Indian Institute of Information Technology, Gwalior

Integrated Bachelors and Masters in Information Technology

2020 - Expected 2025

Gwalior, India

## Experience

### Software Engineer Intern

Feb 2024 - Present

Groww 🗹 | India's Premier Investment Platform

Bengaluru. India

- Led the end-to-end development of Payments Web SDK, overseeing everything from Architectural Design to Final Testing and Deployment. This project substantially improved the Payment Experience for millions, offering a more stable and versatile payment solution.
- Developed dynamic Routing and Scheduling for Payment Gateways, optimizing traffic management during high-traffic scenarios and significantly reducing system downtimes by Directing Traffic to alternative providers.
- · Utilized a modern tech stack including TypeScript, React, and Zustand to build scalable and efficient solutions.

#### Fullstack Developer Intern

Feb 2022 - Jan 2024

 $KoinX \square + \$1.5M - Seed$ 

Remote

- Engineered the Accounting and CA platforms, specifically designed for Cryptocurrency Transactions, from concept to deployment. Leveraged a robust tech stack including Node.js, MongoDB, Docker, Nats, Express, and React.js. Implemented several B2B Integrations that facilitated customer acquisition, enhancing platforms' utility.
- Established robust and efficient microservices through the use of automated tools, including AWS services like SES, SNS, and S3, along with Cron and Socket.io for enhanced scheduling and real-time communication
- Integrated Prometheus Metrics for system Performance Monitoring and developed a microservice using GitHub Actions and Octokit to synchronize common code across multiple GitHub repositories, ensuring code consistency.

SDE Intern Jan 2023 - Dec 2023

Xpertree Innovator in Pharma Insights

Remote

- Spearheaded complete Overhaul of the web application, transitioning from Angular to Next. is 13 to enhance user experience and system performance, resulting in a more modern tech stack and improved user engagement.
- Led the development of critical features such as Engagements, Mapping, Insights, and AI Integrations with platforms like OpenAI and Anthropic, which were pivotal in driving company growth and enhancing UX.
- Worked on backend and database systems using Java Spring Boot, MariaDB, and ClickHouse, and utilized frontend technologies like Next. is, SWR, Novel, and Zustand to optimize data management and application performance.

#### Projects

Phalanx - API Security and Monitoring Framework | NodeJS, TypeScript, NextJS, qRPC, Azure

**5** | Sept 2023

- Submission that secured my team Second Runner Up position in Flipkart GRiD 6.0 among 17,000+ participants.
- Developed a Tree-Based Route Structure for Real-Time API Discovery and Management, and provided a highly Customizable Rules Configuration to protect against OWASP Top 10 Vulnerabilities such as Broken Auth.
- Enhanced security analysis with LLM-Powered Monitoring and RAG Analysis for external API consumption, and Dynamic Data Population with Regex Support to automate and secure API request generation.
- Integrated an architecture with 8 microservices using NodeJS, gRPC, and MongoDB, including components like Scout for comprehensive Automatic and On-Demand Vulnerability Scanning for configured rules, and Sysmon.

#### Atopsy - Server Failure Diagnostic Tool | Rust

**5** | Jun 2024

- Leveraged the Historical Record Keeping capabilities of popular Linux System Monitoring tool Atop to analyze system information and provide statistical insights on server failure.
- Implemented an Advanced Stream Processing Rule Engine using Rust with reusable transform functions, enabling flexible application of Instantaneous and Time-Window Based Rules for 3+ different sets of rules.
- Parsed Atop's raw record files using C Struct Packing, to efficiently utilize Atop's logged data with Rust.
- Enhanced server diagnostics by providing detailed analysis of system metrics, enabling quicker identification and resolution of server issues.

# Achievements

3rd Position in Flipkart GRiD 6.0 4rd Position in Rakathon 2024 2nd Position in Smart India Hackathon 2022 1st Position in Wix DevCon Hackathon 2022

Top 5 Teams in Razorpay FTX Hackathon

1st Position in DSC-IIITM Android Hackathon 3rd Position in HackStack Hackathon

2nd Position in Hack-A-sol 2.0 Hackathon

Finalist [Top 0.5%] in Code with Cisco 2024

3rd Position in Cuvette Codocatober Hackathon

## Technical Skills

Languages: TypeScript, JavaScript, Go, Solidity, Java, C++, C, Kotlin, Dart

Technologies/Frameworks: React, Next.js, Express.js, Gin, Node, Angular, Spring Boot, Flutter, Nats, Jest, AWS, Git

Database Systems: MongoDB, Redis, PostgreSQL, MariaDB, Firebase