

# Rohan M. Rokkam

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Engineer with experience building data-driven backend systems and supporting high-volume, accuracy-critical workflows. Strong foundation in data architecture concepts, cloud-native development, and modern engineering practices like CI/CD, microservices, and automated testing. Skilled in working with complex datasets, ensuring data quality, and contributing to scalable, well-documented system designs. Collaborative, adaptable, and motivated to deepen my expertise in BI, analytics, and Azure-based data platforms.

## PROFESSIONAL EXPERIENCE

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### Software Developer

Mar 2025 – Present

*Phaedon*

- Develop and maintain backend systems for enterprise hotel loyalty programs (e.g. Hilton Honors, Hyatt Loyalty) using **Java**, **Spring Boot**, and **Kotlin** in a **Kanban** environment.
- Build RESTful APIs, batch processes, and optimized **MS SQL** scripts supporting high-volume, data-centric workflows including accruals, redemptions, promotions, and member management.
- Implemented a high-throughput async batch job that improved tasks like bonus processing and audit documentation speed by over **5 times**.
- Contributed to backend refactoring and codebase cleanup, improving data flow efficiency, system reliability, and maintainability.
- Work in a cloud-native, event-driven environment leveraging **AWS**, **Kafka**, **Redis**, **Docker**, **Kubernetes**, **Helm**, and CI/CD pipelines via **GitHub** and **Jira**.

### Software Automation QA Intern

May 2023 – Aug 2023

*ImageTrend*

- Supported quality assurance for healthcare and public safety software platforms used by EMS agencies, hospitals, fire departments, and government entities nationwide.
- Developed and maintained automated test suites in **C#** to validate data accuracy, system reliability, and regulatory reporting workflows.
- Tested critical systems handling EMS field data, hospital integrations, and compliance-driven documentation, ensuring high availability and correctness and earning the **2<sup>nd</sup> highest** defect identification rate on the QA team.
- Collaborated closely with software engineers and product teams throughout the **SDLC** to identify defects, verify fixes, and improve system quality.
- Participated in **Agile Scrum** practices including sprint planning, standups, and code reviews, contributing to continuous delivery and quality improvement.

## PROJECTS

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### Rohan's Sandbox

January 2025

<https://rohanrokkam.com>

- Created a portfolio website using **MySQL**, **Java Spring Boot**, and **ReactJS** to demonstrate full-stack abilities.
- Built a full-fledged CRUD application using modern web technologies.
- Prioritized agile methodologies, rapid application development, scalable designs, and WCAG compliance.
- Designed relational data models and implemented SQL-driven workflows for full-stack applications.

### Makeathon Winner (3rd Place)

February 2023

*UMN College of Science and Engineering*

- Developed an AI-powered healthcare application that translates medical prescription information into layman's terms in multiple languages, improving accessibility for diverse users.
- Engineered the application using **JavaScript**, **Python**, and **CSS**, integrating the OpenAI API to provide real-time, context-aware medical translations and insights.

## LEADERSHIP EXPERIENCE

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### Director of Risk Management

Dec 2022 – Oct 2023

*UMN Delta Tau Delta*

- Oversaw social events with **250+** attendees, implementing risk management strategies for event safety.
- Managed a team of sober monitors and ensured adherence to safety protocols.

### Chief External Affairs Officer

February 2023

*UMD Student Association*

- Built relationships with local and state government officials to advocate for student interests.
- Organized community events to strengthen campus-community connections.
- Orchestrated a university-wide advocacy event at the state capitol, securing increased funding by requesting **\$4.4 million** from the state.

## EDUCATION

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### University of Minnesota, Twin Cities

May 2024

*B.A. in Computer Science, Minor in Leadership*

## SKILLS

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**Programming Languages:** Java, Javascript, Python, C, C#, C++, Kotlin, HTML, CSS, MySQL, SQL, 86-64x, OCAML

**Tools, Technologies & Methodologies:** ELT/ETL Concepts, ReactJS, REST API, Maven, MVC Framework, AI/ML, Pandas, PyTorch, Docker, Kubernetes, Power BI, Azure DevOps, Jira, AWS Cloud Services, Agile Development, Rapid Application Development, Git