

# Rohan Kacheria

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## EDUCATION

### Carnegie Mellon University

*Master of Information Systems Management*

**Coursework:** Object-Oriented Programming, Database Systems, Data Structures, Algorithms, Distributed Systems, Agile, Machine Learning

### University of Mumbai

*Bachelors of Engineering, Electronics & Telecommunications*

Pittsburgh, PA

*January 2023 – May 2024*

Mumbai, India

*June 2018 – June 2022*

## WORK EXPERIENCE

### Backend Engineer

November 2024 – Present

*Nodestar*

*Pittsburgh, PA*

- Engineered a multimodal agentic RAG using PhiData and Vectorized Search to develop a chat system for efficiency querying.
- Implemented custom actions that were integrated into the LLM, enabling the system to generate context-sensitive responses.
- Designed a dashboard tracking key ratios over time, and the daily investment holdings to devise informed trading strategies.

### Software Development Engineer

May 2024 – November 2024

*Conduit*

*Pittsburgh, PA*

- Engineered a segmentation logic based on employee inputs, improving targeted hiring & boosting employer engagement by 23%.
- Automated shift assignment using decision tree classification with a 92% accuracy, saving 5 hours of manual labor weekly.
- Crafted & tested APIs and frontend components based on client requirements, lowering customer acquisition costs by 13%.

### Software Development Engineer

January 2024 – May 2024

*BNY Mellon*

*Pittsburgh, PA*

- Implemented an ML model with 92% accuracy resulting in insider threat detections, and reduced workload for analysts by 17%.
- Architected an ETL pipeline using Kafka and Snowflake to streamline ingestion for a data lake, improving processing speed, reducing computation costs by 17%, and saving 13% of the annual project cost by reducing external dependencies.
- Designed a cross-browser compatible dashboard to triage real-time threats, improving threat response efficiency by 7%.

### Product Manager

January 2024 – May 2024

*Bosch*

*Pittsburgh, PA*

- Presented strategies weekly to stakeholders, gathering feedback to enhance product quality by 30%, and guide the product flow.
- Performed Competitor Analysis, Market Research & A/B testing to define user requirements increasing CSAT by 13%.
- Led market entry strategy for new healthcare product - defined GTM strategy, user personas, pricing, and 8 B2B partnerships.

### Research Assistant (Full Stack Software Engineer)

August 2023 – December 2023

*Carnegie Mellon University*

*Pittsburgh, PA*

- Optimized the queries to improve the rendering speed of our web page by 77%, enhancing the user experience.
- Improved the plagiarism detection algorithm by 5%, performed code reviews & enhanced legacy code for better performance.

### Software Development Intern

May 2023 – August 2023

*Conduit*

*Pittsburgh, PA*

- Designed CI/CD pipelines for the software development lifecycle reducing deployment errors by 40% & deployment time by 20%.
- Automated unit and integration testing for encryption and proofing, achieving 95% code coverage and reducing bugs by 30%.

### Associate Software Developer

July 2022 – December 2022

*Collabera Digital*

*Mumbai, India*

- Developed a video resume parser using Azure's text-to-speech recognition, saving \$13,000 annually by cutting third-party dependencies.
- Streamlined recruitment by developing an automation bot using Selenium and Flask, saving the company 10% in subscription costs, and a client-facing app using .NET Core and Angular.JS, generating over \$30,000 in revenue.
- Leveraged microservices architecture and test-driven development to automate unit tests & reports, reducing bugs by 17%.

## PROJECTS

### ProShop | *Android, JSON, JSP, REST, Tomcat, maven, JVM, continuous integration, AJAX, MVC, Spring, Amazon Clone, Web Development*

- Implemented a Docker-hosted service for an e-commerce web application, allowing inter-service communication.
- Architected a dashboard with statistics and graphs based on user logs to drive data-driven decision-making and business growth.

### LinkUp | *Next.js, React, Hooks, Redux, Nodejs, Express, PostgreSQL, TypeScript, RESTful API, Random Forest, state management, UI / UX*

- Engineered a cross-functional platform enabling users to interact with posts, engage in real-time chats, and follow their friends.
- Designed a recommendation algorithm to suggest potential accounts to follow and enhanced user experience with dark mode.

### X Data Pipeline | *Airflow, AWS services, EC2, S3 buckets, S3FS, version control systems, big data, debugging, CLI, git*

- Designed end-to-end ETL pipeline to extract data using the X API, transformed it on AWS EC2 instances using Apache airflow, and then loaded the data in AWS S3 buckets using s3fs resulting in a scalable and reliable social media insight storage system.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, TypeScript, Python, R, C, C#

**Frameworks:** HTML, CSS, Bootstrap, JQuery, React.JS, Tailwind, Next.JS, SASS, Node.JS, Express.JS, EJS, Django, .NET, Spring

**Databases:** SQL(Oracle, MySQL, PostgreSQL, SQLite), NoSQL(MongoDB, Redis, BigQuery, DynamoDB, Firebase, Cassandra)

**Data Science:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, SciKit learn, nltk, Vader, SpaCy, TensorFlow, PyTorch, Scrapy, RAG

**Tools:** Tableau, PowerBI, Kanban, Figma, MS Office, Linux, AWS, GCP, Hadoop, MapReduce, Spark, MRJob, Selenium, BS4