

ROHAN PATEL

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EXPERIENCE

Software Manager, R1649 Private Equity Partners

August 2024 — Present

- Spearheaded AI initiatives to develop models analyzing 1000+ data points, driving data-informed strategic decisions.
- Deployed the company website using AWS Amplify for scalable infrastructure and performance, while configuring backend database functions with AWS EC2 to support efficient data handling and storage for seamless web functionalities.
- Executed secure, scalable authentication protocols using AWS Cognito and NextAuth, streamlining user login workflows.

Software Development Lead, R1649 Private Equity Partners

May 2024 — August 2024

- Directed front-end development to better the UI/UX experience on the official R1649 website.
- Organized and assisted a team in integrating the NextJS front end to a Flask backend.
- Designed and launched a client-side dashboard for real-time equity tracking, improving transparency and reducing manual reporting time by 50%.

Facility Management, YMCA of Greater Charlotte

June 2023 — August 2024

- Supervised daily operations at 8 YMCA facilities, streamlining maintenance workflows and reducing downtime by 15% across locations.
- Resolved structural and electrical issues across 8 YMCA facilities, ensuring uninterrupted operations and enhancing member satisfaction.

EDUCATION

North Carolina State University Computer Science B.S.

August 2024 — May 2026

PROJECTS

Dividend Calculator

- Designed a Flask-based web application to fetch, process, and display ETF data, creating a user-friendly interface for financial analysis.
- Harnessed Selenium and requests libraries to efficiently extract and process data from a 500+ ETF financial database.
- Developed Python functions to calculate ETF metrics such as current price, dividend yield, and projected future prices, enhancing analytical capabilities.

Task Manager

- Composed a task manager inside of a Java IDE with IO capability, along with sorting and organizing tasks based on category and priority set by the user
- Demonstrated proficiency in software engineering principles by achieving over 80% line coverage and 100% method coverage in each class through rigorous testing methodologies
- Integrated Jenkins and JUnit frameworks to establish a continuous development environment to maintain code quality and reliability

MD5 Encryption

- Designed and implemented an MD5 encryption algorithm in C to hash data into 128-bit digests, ensuring secure data handling for sensitive applications.
- Developed the MD5 pipeline by constructing functions for message padding, block division, and cryptographic transformations using bitwise operations and modular arithmetic.
- Optimized performance by reducing hashing time by 15% through efficient memory management and iterative processing.

TECHNICAL SKILLS

- **Languages:** Java, Python, C, R, JavaScript, TypeScript
- **Technologies:** React, Node.js, NextJS, Numpy, Pandas, Flask