

# Manas Vohal

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## EDUCATION

### Rutgers University

New Brunswick, NJ

*B.S. Computer Science, B.S. Data Science*

*Expected May 2027*

- **GPA:** 3.6/4
- **Awards:** Dean's List, Dean's Scholarship, Honors College
- **Relevant Coursework:** Data Structures, Intro to Data Science, Design and Analysis of Computer Algorithms, Introduction to Discrete I and II, Computer Architecture, Principles of Information and Data Management, Numerical Analysis and Computing

## EXPERIENCE

### Software Engineering Intern

Incoming Summer 2025

*Penske Truck Leasing*

*Reading, PA*

- Developed a full-stack Quality Control web application using Angular for the front-end, delivering responsive and intuitive UI components to enhance user experience.
- Built and maintained RESTful APIs and core backend logic using Java (Spring Boot), integrating seamlessly with a SQL database for efficient data storage and retrieval.
- Collaborated in an Agile team using Git for version control, actively participating in code reviews, sprint planning, and testing to ensure high-quality, maintainable code.

### Consumer Insights Data Analytics Externship

September 2024 – October 2024

*Beats by Dre/Extern*

*Remote*

- Performed sentiment analysis on 1,000+ consumer reviews using Python, identifying key areas for product improvement
- Conducted exploratory data analysis (EDA) on large datasets, uncovering trends that informed strategic decisions and improving consumer sentiment by 10 percent
- Applied exploratory data analysis (EDA) techniques to uncover underlying patterns and trends in large datasets
- Analyzed datasets with over 1 million rows, identifying 5+ key trends that directly influenced business strategy.
- Developed data visualizations that enhanced strategic brand decisions by reducing reporting time by 40%

### Web3 Security Data Analytics Externship

Aug. 2024 – Sep. 2024

*Webacy/Extern*

*Remote*

- Analyzed more than ten intelligent contracts in Ethereum, Arbitrum, Optimism, and Polygon for vulnerabilities related to over 30+ identified risks, including honeypots, reentrancy, and centralization, compiling over 50 sources in thorough documentation
- Conducted peer validation, ensuring data set accuracy with a 99% validation success rate
- Performed frequency and correlation analysis on 500+ risk tags to identify the most prevalent vulnerabilities and their associations, gaining proficiency in data manipulation and statistical tools
- Demonstrated proficiency in Excel and Tableau, performing complex data analysis and creating 20+ detailed visualizations to uncover insights into smart contract vulnerabilities and risk profiles

## PROJECTS

### ReachSearch | *Node.js, Cheerio, MongoDB, AWS Elastic Beanstalk, Swift (Xcode), OpenRouter*

May 2025

- Built a scalable web scraper in JavaScript (Node.js + Cheerio) to extract 250 faculty profiles and research areas from cs.rutgers.edu and cs.umd.edu.
- Architected a MongoDB backend to store and index professor data and research keywords, ensuring sub-100ms query performance.
- Deployed a RESTful API on AWS Elastic Beanstalk to serve and refresh scraped data.
- Developed the iOS client in Swift, implementing an AI-driven recommendation engine using the OpenRouter LLM to parse user-uploaded resumes, match relevant faculty, and auto-generate personalized email drafts.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Angular

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib