

Manas Vohal

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EDUCATION

Rutgers University

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

New Brunswick, NJ

Expected Dec. 2026

- **GPA:** 3.62/4
- **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

Penske Truck Leasing

May 2025-Present

Reading, PA

- Developed full-stack applications from scratch to fully automate and modernize the inspections and insurance claims of 50,000+ vehicles, projected to eliminate 6,000+ hours yearly in quality checks.
- Used Angular for the front end to deliver responsive and intuitive UI components, and built RESTful APIs and core backend logic using Java (Spring Boot), integrating with a SQL database for efficient data storage and retrieval.
- Modernized truck inspection quality control for 50K vehicles; projected to eliminate 6K+ hours yearly.
- Engineered full-stack features using Angular, Spring Boot, and SQL; deployed via OpenShift in Agile sprints.
- Enabling contract intelligence through RAG-based QA portal; projected to recover 35K+ Penske hours/year.

Consumer Insights Data Analytics Externship

Beats by Dre/Extern

September 2024–October 2024

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%

PROJECTS

Property Maintenance Chatbot | *Twilio, Node.js, WhatsApp Business API, Express.js*

June 2025

- Developed a Twilio-powered WhatsApp chatbot that automated over 150+ property maintenance requests, reducing tenant-service response time by 60%
- Engineered a Node.js and Express.js backend to manage conversational flows, classifying 100% of incoming issues (e.g., electrical, plumbing) with follow-up logic for room, urgency, and scheduling.
- Enabled multi-channel opt-in (SMS + web form), leading to a 40% increase in maintenance reporting efficiency and improved tenant engagement.

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, attracting 50+ users, 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