

Rudraksh Simlote

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EDUCATION

Rutgers University

New Brunswick, NJ

Bachelor of Science in Computer Science and Data Science

Sep. 2022 – May 2026

- Relevant Coursework - Intro to CS, Data Structures and Algorithms, Intro to Linear Algebra, Discrete Structures I and II, Computer Architecture, Data 101, Internet Technology, Data Management for Data Science, Intro to AI, Intro to Data Science, Design & Analysis of Algorithms

TECHNICAL SKILLS

Languages: Java, Python, PostgreSQL, JavaScript, HTML/CSS, C, R

Frameworks: React, Node.js, Spring, Next.js, Tailwind CSS, Material-UI, FastAPI, Flask, Angular

Developer Tools: Git, Docker, Android Studio, VS Code, Visual Studio, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib, OpenCV, PyTorch, Mammoth, pdfplumber, python-docx, WebSocket

Certifications/Awards: AT&T 2024 Technology Academy, Dean's List(Rutgers)

EXPERIENCE

Software Developer Intern (Data Focus)

May 2025 – Aug 2025

CGI

New Brunswick, NJ

- Reduced resume formatting time by 85% by building a full-stack AI pipeline using Azure OpenAI's o4-mini LLM model to parse PDF/DOCX resumes and generate CGI-branded Word/PDF outputs, enabling HR to process 50+ resumes in under 10 minutes
- Enabled processing of 200+ resumes/hour by developing a concurrent engine with WebSocket updates, error handling, and summary reporting, reducing manual oversight by 70%
- Built a React/Material-UI editor with AI-suggested fields, inline editing, and validation, improving data accuracy to 98% and cutting post-edit corrections by 60%

Research Assistant

September 2024 – Present

Rutgers University – Srinivas Narayana

New Brunswick, NJ

- Led the development of a tool to formally verify TCP RFC statements by converting natural-language protocol rules into first-order logic (SMT-LIB) expressions.
- Designed and implemented symbolic translation pipelines in Python, integrating the Z3 theorem prover for protocol-level validation.
- Engineered modular components for parsing, SMT-LIB/Z3 code generation, and Hugging Face-based LLM prompt handling to automate RFC processing.

SWE MBS Extern

September 2024 – December 2024

CGI

New Brunswick, NJ

- Analyzed over 1,000 customer interactions using AI models that improved program efficiency by 25%
- Built a dynamic Flask dashboard for sentiment analysis visualization, streamlining data interpretation and decision-making
- Implemented sentiment classification to identify customer concerns, driving targeted process improvements for programs

Learning Assistant, Intro to Computer Science & Calculus 1

July 2024 – Present

Rutgers University

New Brunswick, NJ

- Facilitating learning for 100+ students in core computer science topics in Java and Calculus 1, leading weekly recitation sessions
- Providing one-on-one tutoring, improving students' coding and problem-solving skills
- Collaborating with faculty to create teaching materials and assist with grading

Software Engineering Fellow

July 2024 – August 2024

Headstarter AI

New York City, NY

- Built and deployed 5+ AI-driven apps using Next.js and OpenAI models with 98% accuracy, serving over 1000 users
- Led a team of 4 engineering fellows, implementing microservices with a focus on scalability and performance
- Collaborated with industry professionals to apply best practices in Agile, CI/CD, and code review processes

PROJECTS

AI FlashFire: Adaptive Learning Flashcard Web App | *Python, Next.js, OpenAI API*

July 2024 – Present

- Developed a full-stack web application that dynamically generates personalized flashcards using AI, improving user retention and engagement
- Integrated OpenAI's GPT-4o LLM model to provide adaptive learning content based on user performance, leading to a 30% improvement in knowledge retention
- Implemented a responsive interface using React, enhancing user experience across different devices

MovieMatch | *Python, Pandas, NumPy, Matplotlib, Scikit-Learn*

July 2024 – August 2024

- Developed a Python-based movie recommendation system using collaborative filtering
- Analyzed and visualized user preferences and movie metadata using Pandas, NumPy, and Matplotlib to identify key trends
- Improved recommendation accuracy by 20% through iterative model fine-tuning and hyperparameter optimization in Scikit-Learn

InternTracker | *MERN Stack (MongoDB, Express.js, React, Node.js)*

Feb 2024 – Jun 2024

- Built a full-stack web app to centralize internship applications, improving tracking efficiency by 40%
- Integrated OpenAI-powered resume optimizer, boosting compatibility with job descriptions by 30%
- Optimized backend services for scalability using distributed data models