

Work Experience

**SOFTWARE ENGINEERING FELLOW****HEADSTARTER AI****JULY 2024 - SEP 2024**

- Engineered and deployed over 5 sophisticated AI applications and APIs utilizing Next.js, OpenAI, Pinecone, and StripeAPI, achieving a remarkable 98% accuracy and positively impacting over 1,000 users.
- Spearheaded the development of end-to-end projects, managing and mentoring a team of 4+ engineering fellows through the implementation of MVC design patterns to ensure robust and scalable solutions.
- Received advanced training from industry leaders at Amazon, Bloomberg, and Capital One on Agile methodologies, CI/CD processes, Git, and microservice architectures, enhancing technical proficiency and project management skills.

**AI TRAINING ADVANCED CODER****OUTLIER AI****MAY 2024 - AUGUST 2024**

- Evaluated the quality and accuracy of AI-generated code, provided detailed feedback, and solved complex mathematical problems in linear algebra, probability, and advanced geometry to assess the models' problem-solving capabilities.
- Developed and implemented robust test cases to ensure the efficiency and effectiveness of AI outputs, contributing to the continuous improvement and training of cutting-edge generative AI technologies.

Education & Certificates

B.S. Computer Science	Rensselaer Polytechnic Institute	3.7	August 2023 - Present
High School Diploma	Brooklyn Technical High School	4.0	Sept 2019 - June 2023
J.P. MORGAN SOFTWARE ENGINEERING VIRTUAL EXPERIENCE ON FORAGE			June 2024
<ul style="list-style-type: none"><li>Fixed broken files in the repository to make web application output correctly.</li><li>Used JPMorgan Chase's open-source library called Perspective to generate a live graph displaying a data feed clearly and visually appealing for traders to monitor.</li></ul>			
GOLDMAN SACHS   SOFTWARE ENGINEERING JOB SIMULATION ON FORAGE			August 2024
<ul style="list-style-type: none"><li>Simulated Goldman Sachs governance analyst role, assessing IT security and suggesting improvements.</li><li>Identified outdated password hashing algorithm by cracking passwords using Hashcat.</li><li>Proposed password protection uplifts: extended length, hashing algorithms, and concepts such as salting/peppering</li></ul>			

Skills & Languages

Languages: C++ C Python HTML CSS JavaScript R/R Studio  
Skills: NextJS Bootstrap Firebase React Stripe Data Structures & Algorithms

Projects

- FinLLM Web Search Agent | Columbia Business School Collaboration**
  - Contributed to developing an AI-driven web search and financial advisory tool utilizing real-time web scraping, retrieval-augmented generation (RAG), and integrated databases. Worked on enhancing LLM benchmarking, fine-tuning, and local file parsing for accurate financial data retrieval.
- AI RATE MY PROFESSOR**
  - Developed an AI assistant to rate professors using RAG, integrating Next.js, React, Pinecone, and OpenAI API. Created a comprehensive tutorial to guide users in building RAG-based applications with these cutting-edge technologies.
- AI FLASHCARDS**
  - This project involves building a flashcard SaaS using Next.js and React for the front end, Firebase for data storage, OpenAI for generating flashcard content, Clerk for user authentication, and Stripe for payment processing.
- BetrHealth CHATBOT**
  - Developed an AI powered online physical therapy / kinesiology tool using Next.js, React, OpenAI, Vercel, and Pinecone, with real-time streaming capabilities for dynamic user interactions. Deployed on Vercel, ensuring secure, scalable, and responsive user experiences.