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Harman Aujla

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https://github.com/haujla2391
Portfolio: https://haujla2391.github.io/Portfolio/

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

• Set up a local dev environment by downloading the necessary files, tools and dependencies.
• Fixed broken files in the repository to make web application output correctly.
• 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.

GOLDMAN SACHS | SOFTWARE ENGINEERING JOB SIMULATION ON FORAGE   August 2024

• Simulated Goldman Sachs governance analyst role, assessing IT security and suggesting improvements.
• Identified outdated password hashing algorithm by cracking passwords using Hashcat.
• Proposed password protection uplifts: extended length, hashing algorithms, and concepts such as salting/peppering

Skills & Languages

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

Projects

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.

PANTRY TRACKER WITH AI
-Developed a dynamic inventory management app using Next.js, React, Firebase, and OpenAI, deployed via Vercel with CI/CD pipelines on GCP, enhancing real-time data. AI feature that creates recipes based on ingredients in the pantry.