Brian Rahmoune

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HOLDS ACTIVE SECRET CLEARANCE

Technical Skills

Programming Languages: C++, Python, JavaScript, Typescript, Bash, Windows PowerShell, YAML, SQL

Frameworks & Libraries: OpenAI, Huggingface, PyTorch, Transformer, RestAPI, Scikit-Learn, React

Computer Science Skills & Tools: Pinecone DB, Chroma DB, MongoDB**,** Git, Linux, GDB, Transformer Neural Network, Convolutional Neural Network (CNN), GitLab & Jenkins Pipeline, Data Visualization, Docker, Full-stack Development

LLMs: GPT-3.5-turbo, GPT-4, Llama2(7B-70B), Mistral 7B, BERT, T5

Languages: Fluent in Darija and Spanish, limited working proficiency in Modern Standard Arabic

Education

B.S. in Computer Science

The University of Texas at Dallas ***May 2022***

Relevant Coursework: Computer Science I & II, Programming in a Unix Environment, Computer Architecture, Data Structure and Algorithms, Databases, Operating Systems, NLP

Work Experience

Lockheed Martin DevSecOps Engineer 1 ***May 2022 – Present***

● Integrated multiple products received from different teams to provide a working simulation to be used by Air Force Pilots in a Linux Desktop Environment.
● Increased the percentage of successful builds deployed for further testing to pilots and other internal teams by 30%.
● Worked with Bitbucket, JIRA, and other Atlassian products for source version control and other DevSecOps related work. Also, I am very comfortable debugging C/C++ code with GDB.
● I am the point of contact for multiple software products. Delegated work regarding the aforementioned software products to a subset of teammates that were assisting with integrating simulation for the F-35 fighter.
● Developed multiple Python Tkinter GUI applications, Linux command line tools, and data analysis application to be used for LLM finetuning.
● Transitioned the previously setup Jenkins pipelines to GitLab as the team was moving to GitLab for a more uniform set of DevSecOps tools.
● Collected and cleaned data that was then sent off to an internal machine learning team. Helped create a train-eval dataset for that team.

Collins Aerospace Software Engineer Intern/Co-op ***June 2021 – December 2021***

● Used VC++ to update simulators used for radio communications between military bases & ground stations.
● Utilized network programming in Python to work on server-side TCP connections for simulators.
● Configured routers and switches for installation at different global sites for High Frequency Global Communication Systems

Relevant Projects

RAG Chatbot:

● I own a collection of books on my server that range from fiction to non-fiction books, to technical books that go in detail about deep learning with Python. I created a chatbot using Llama2-13B parameter model alongside the bge-large-en-v1.5 model for embeddings to create a vector DB of my text and allow me to chat with my chatbot about the text. I developed a pipeline to ingest the data, created the necessary embeddings for the text and fed it to the Chroma vector database to later be accessed by the Llama model.