MOTHEO TREASURE PUSO

Software Engineer

✉ pusomoth@msu.edu

📞 (517) 980-4723

🔗 https://www.linkedin.com/in/motheo-treasure-puso-6b637a13a/

🔗 https://github.com/motheotp

🌐 https://motheotp.github.io/

EDUCATION

Bachelor of Sciences

Computer Science & Engineering

Michigan State University (MSU)

📅 May 2019 - July 2024

Relevant courses

- Industrial Automation
- Web and Mobile Application
- Cloud Computing & AI

Bachelor of Arts

Finance

Eli Broad- Michigan State University

📅 May 2019 - July 2024

Relevant courses

- Financial Modelling

SKILLS

- Langchain & OpenAI
- AWS and GCP with Terraform, Docker and Kubernetes
- Python: Django, Flask, PyTorch
- Data & Statistical analysis : R, Pandas, MySQL, Matplotlib, NumPy
- PowerBI, Power Apps
- AI: prompt engineering & fine tuning
- React JS, TSX with Axios, Redux & Formik
- Algorithm Engineering

WORK EXPERIENCE

Ally Financial - Full Stack Developer - Capstone

📅 January 2024 - May 2024   📍 Remote

- Developed an AI support bot using Flask, Beautiful Soup, and LangChain and deployed the software to AWS .
- Fine-tuned GPT3.5 Turbo API model, resulting in a 25% increase in accuracy for user query responses and a 60% reduction in response time.
- Created a robust RESTful API linking the support bot to a React frontend, utilizing AWS EKS for scalability and responsiveness, and S3 for secure data storage.

Altair Engineering Inc - Software Engineer -Intern

📅 Jun 2022 - May 2023   📍 Troy,MI

- Optimized Altair's data visualization software architecture using Python scripting, PyTest for unit testing, and profiling tools to identify and improve performance bottlenecks by 30%.
- Utilized Monarch and Python for data cleansing and transformation, automating data validation processes with custom scripts for demos.
- Developed bespoke data analysis scripts in Python using Pandas and NumPy, and configured Altair's Data Analytics software to meet client-specific technical requirements.

Associated Students of MSU - Director of IT & Web Dev

📅 Jun 2022 - current   📍 East Lansing, MI

- Managed servers and setup scalable virtual environments using VMware achieving a 20% increase in server efficiency and performance.
- Automated procurement processes, and optimized permissions and authorization by writing python scripts to control user privilege matrix.
- Built the MSU news application (Spotlight) using ReactNative for frontend and Python for the backend.

Certifications

📅 2024

- AWS Cloud Solutions Architect - Amazon & Coursera
- Fine Tuning LLMS - Deep Learning
- IBM Full Stack Software Developer Professional Certificate.
- Backend Development for .NET Full Stack Specialization - Board Infinity
- Microsoft PowerBI Certificate - Coursera

PROJECTS

- Building a WhatsApp API to integrate AI model for business customer relations.
- Implemented a heuristic search algorithm to optimize route finding in a Pac-Man game using AI, enhancing gameplay strategy(see github repo).
- Developed a "Bug Squash" and "Angry Bird" game (see github repo) utilizing c++, wxGraphics, CMake, and virtual pixel libraries.