

# MOTHEO TREASURE PUSO

*Software Engineer*

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🐙 <https://github.com/motheotp>

## EDUCATION

Bachelor of Sciences

Computer Science & Engineering

**Michigan State University (MSU)**

📅 May 2019 - July 2024

Bachelor of Arts

Finance & Insurance

**Eli Broad- Michigan State University**

📅 May 2019 - July 2024

## SKILLS

- Langchain & OpenAI
- AWS and GCP with Terraform, Docker and Kubernetes
- Python: Django, Flask, PyTorch, NumPy
- Data & Statistical analysis : R, Python Pandas, MySQL, Matplotlib
- 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

- IBM Full Stack Software Developer Professional Certificate.
- Fine Tuning LLMS - 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.