LinkedIn: masroorposh10 https://masroorsportfolio.netlify.app

MASROOR POSH

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WORK EXPERIENCE

AI/ML Engineer, Intern

SYMEND

Jan 2024

- Incoming Full-Time CO-OP Software engineering student starting this January.
- Will be working on LLM's and model centric server's developments and prompt Engineering.

Full-Stack Software Engineer

Energy Simulation Centre | Calgary, AB

May 2023 – September 2023

- A Full-Time Paid Summer Research Internship.
- Restructured Geo-Predict Web App, Using React.js (Frontend), FAST API(Backend) & PostgreSQL.
- Assignment of putting the Machine Learning Plots on Frontend using Chart.js, Plotly Styled Tailwind.
- Use of Soft Sensor for predicting the Drilling Outcomes and doing analysis to predict geothermal outcome.
- Get Data from BHA CSV's Using Pandas, NumPy from Python & Plot the graph using MATPLOTLIB.
- Used **SQL** for the **PostgreSQL** Database to store the Users Information.

Undergraduate Research Assistant

University of Calgary

September 2023 – December 2023

- A **Research** where I contributed to the development of **AI** based code generation models.
- Designed and executed tests to distinguish human-generated code from Al-generated code.
- Seamlessly integrated **PyTorch, NLP** and **ML algorithms** into code generation processes enhancing the Al.
- Achieved significant **improvements** in **code quality** and consistency through **fine-tuning** iterations.

Engineering Learning Assistant

University of Calgary

May 2022 - Present

- Managing university employee duties alongside academics, offering course planning assistance to peers.
- Delivering tutoring services with teaching methods for enhanced student academic performance.
- Engaging in initiatives, communication between students & administration, advocating for student needs.

EDUCATION

Calgary, AB

University of Calgary

September 2021 – May 2025

BSc. in Software Engineering.

GPA: 3.5/4.0

TECHNICAL PROJECTS

MPCODE:

- A Full Stack Web app for Writing Code, Optimization, and explanation, Powered by ChatGPT.
- Used **NEXT.JS** and **Express.js** with **MongoDB** as the Data Base for **POST** and **GET** Methods.
- ChatGPT API with axios to get the explanation and optimization from the OpenAI API.
- Used github.workflows for devops practices to deploy it to vercel cloud.

CI-CD:

- development process with Python calculator project, seamlessly integrated with CI/CD practices.
- With the power of GitHub Workflows to automate tests, ensuring code quality and reliability.
- With automatic deployment to an S3 bucket using Terraform, effortlessly distribute artifact files,
- enabling efficient collaboration and continuous improvement.

THE-LEGACY:

- legacies of our beloved legends, Crafted with React and powered by AWS Lambda and DynamoDB.
- cherish their memories through beautiful MP3 and PNG files stored securely on Cloudinary.
- power of AI as our ChatGPT API generates description, and Amazon Polly Reads it.
- API keys securely stored in AWS Parameter Store.

Languages and Technologies

- Python, java, C++, Node.js, JavaScript, react.js, AWS-lambda, next.js, tailwind, Ruby, php, YAML, Terraform, SQL
- Visual Studio, Github.workflows, PostgreSQL, ec2, Jenkins, Docker, IntelliJ, Unix, Linux, MS Office, CI/CD.