Krishna Purohit

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Education

George Mason University Fairfax, VA

Bachelor of Science in Computer Science *Aug. 2021 – May 2024*

- **Honors/Awards**: Dean's List 2023, HOC **Fellowship Recipent**, **1st Place** at GMU Unmanned Aerial Prototyping Challenge, **2nd Place** at Deloitte's StartUP Challenge, Head of Sponsor Outreach at PatriotHacks Hackathon

Experience

Cloud Engineer, Intern May 2022 – Present

Volkswagen Credit, Inc. *Fairfax, VA*

- Reduced cloud costs across multiple tenants by an **average of 22% monthly** by implementing aws-nuke on outdated sandboxes and optimizing resource utilization.
- Wrote automated scripts using **Bash** to streamline cloud operations and maintenance tasks.
- Updated and maintained **SonarQube** and **Concourse** tools to ensure code quality, security, and continuous integration and delivery while documenting processes and outcomes to stakeholders using Git, Jira, and Confluence
- Collaborated with senior engineers to migrate legacy on-premises systems to **AWS cloud** platform using various services and tools.

Hackathon AI Engineer May 2023 – July 2023

Microsoft, NASA *Fairfax, VA*

- Implemented **Segment Anything** (SAM) AI model to detect and map off-shore wind farms using **Azure cloud** computing resources and **Juypter Notebooks**.
- Utilized Microsoft's **Planetary Computer API** to work with **real-time satellite data** from Sentinel-1 using **Azure blob storage**.
- Presented final results to a panel of industry leaders from Microsoft and NASA while working towards contributing to Microsoft's Global Renewables Dataset

Project Manager May 2023 – July 2023

George Mason University, Honors College Connects, Fairfax County *Fairfax, VA*

- Participated in the HNRS 261 Honors College Connects class and supported local nonprofits in addressing social issues such as health, social justice, and environmental sustainability.
- Worked as a consultant for Fairfax County to analyze data and worked on a data gap analysis.
- Contributed to the program's success and impacted the community through team collaboration and engagement.

Projects

CLEO: AI-Powered Search History | *Node.js, JavaScript, Chrome API, Git*

- Developed a **full stack** extension with **JavaScript, HTML5, CSS3,** and **Node.js** to allow users to search their browsing history even if they do not remember the exact content/title of the website.
- Integrated the **OpenAI GPT API** model into the application, utilizing natural language processing techniques to parse and categorize website history based on user input accurately.
- Implemented an efficient **fuzzy search algorithm** to allow users to find the best results even if they misspell or use synonyms of their search terms **increasing search accuracy by 86%**
- Managed a cohesive team using Jira and Agile Methodology to work on a CI/CD pipeline on GitHub.

AI Stock Trader | *Python, numpy, pandas, sklearn, keras, TensorFlow*

- Retrieved stock analytics from IEX Cloud API and **web-scrapping** Yahoo Finance data to calculate trading strategies using the **NumPy** and **Pandas** libraries.
- Engineered algorithms to calculate individual stock's overall percentile and calculate shares to buy.
- Trained artificial intelligence model using an **LSTM** (using sklearn with keras and TensorFlow) based **neural network** for prediction of next-day stock price

Technical Skills

Languages: Java, Python, C, Node.js, JavaScript, HTML3/CSS5
Technologies: Git, Docker, AWS Cloud, Oracle Cloud, Unix, Vim, Jupyter Notebooks, JUnit Tests, Adobe CC