CAO CONG LUAN TRAN

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https://github.com/luantran06

Education

Georgia State University
Bachelor of Science, Computer Science — Aug 2021 - Dec 2024

- Achievements: GPA: 3.93
- Courses: Operating System, Programming Language Concepts, Design & Analysis: Algorithms, Computer Architecture, Data Science, Machine Learning

Skills

Languages: Python, Java, JavaScript, HTML, CSS, SQL, C, MySQL
Tools: Pytorch, Git, Terraform, Google Cloud Platform, Oracle Cloud Infrastructure, Docker, PowerShell scripting, API Integration, GitHub, Software version management

Work Experience

Material In Motion — Fairburn GA
Test Technician — Jun 2023 - Jan 2024

- Hardware Management: Server installation, configuration, and maintenance, including storage management and system optimization using PowerShell scripting.
- Network Operations: NETWORK MONITORING UTILITING established tools and practices. Device configuration and efficient network management HONING skills useful for complex API integration.
- System Monitoring & Diagnostics: USED performance monitoring tools TO deliver intelligent fault detection and problem ailerona troubleshooting, facilitating enhancements in compliance with software version management protocols.
- Security & Compliance: Implemented access control and security protocols with detailed documentation, laying groundwork for compliance within software development frameworks.

Material In Motion — Fairburn GA
Debug — Jun 2020 - Jun 2023

- Collaborated with the development team to refine debugging processes, enhancing knowledge in programming and analyzing code, which includes Python and JavaScript.
- Utilized various debugging tools to troubleshoot issues found during the testing process, paralleling documentation standards found in Software Developer roles focused on Java.
- Worked on handling advanced components in server computers, strengthening understanding of foundational Python scripting in support of broader software development tasks.
- Built foundational knowledge in server hardware diagnostics which fortified essential troubleshooting abilities directly translatable to API Integration.

Projects

ML for Space Weather Impact on Critical Infrastructure

- Developing a machine learning model using Python and PyTorch, assessing the vulnerability and resilience of critical infrastructure to space weather events.
- Employed advanced statistical techniques such as extreme value analysis to estimate 100-year return level events and network analysis to map critical infrastructure dependencies.
- Leveraged machine learning algorithms to predict potential impacts and uncover hidden relationships between space weather conditions and infrastructure systems.

Handwritten Character Recognition with HuskyLens

- Developed a natural language processing project to accurately recognize handwritten characters from images.
- Utilized the HuskyLens, a versatile AI machine vision sensor, to efficiently process and analyze visual data.
- Leveraged the HuskyLens's built-in functions such as object recognition and classification to extract and identify handwritten characters with 80 percent precision.