

CAO CONG LUAN TRAN

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Summary

Test Technician transitioning into Software Dev Engineer with foundational experience in debugging server computers and conducting quality tests. Utilizes diverse programming languages including Python, Java, and SQL to collaborate effectively with development teams. Displays adeptness in employing tools like Docker and Terraform in computing environments. Anticipates leveraging these skills to contribute to designing innovative technologies solutions and products in an expanding distributed environment.

Education

Georgia State University

Bachelor of Science, Computer Science

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

Work Experience

Material In Motion

Fairburn GA

Test Technician

06/2023-01/2024

- Conducted tests and inspections to assess the quality and performance of products and equipment, and troubleshoot malfunctions and defects using systematic analysis techniques.
- Managed the calibration and verification of testing tools, ensuring accuracy for consistent outcomes.
- Developed comprehensive troubleshooting skills for server systems, emphasizing structured problem-solving.

Material In Motion

Fairburn GA

Debug

06/2020-06/2023

- Debugged server computers and experienced with advanced component parts for industrial purposes, reinforcing knowledge in debugging and optimization.
- Collaborated with the development team to enhance the debugging process, employing object-oriented design for precise error correction.
- Utilized various debugging tools and methods to isolate and resolve problems identified during testing, integrating algorithmic design for task efficiency.
- Built thorough knowledge of server hardware and software troubleshooting, focusing on data structures and complexity analysis applicable to system improvements.

Projects

Restaurant Reviews Application

- Developed a dynamic platform for users to discover, rate, and review local eateries using Django. Utilized modern web technologies like React, Django REST framework, MongoDB, and AWS for a scalable and user-friendly experience.
- Implemented advanced features such as search filters, interactive maps, and a recommendation system. Successfully launched with 50 users and 300 reviews.
- Demonstrated expertise in full-stack development, database management, and cloud technologies within the Python ecosystem.

Web Traffic Forecasting System

- Developed a web traffic forecasting system using ARIMA and LSTM models, achieving an 85% accuracy improvement.
- Built a data preprocessing pipeline and interactive dashboards with Flask and Plotly for trend analysis.
- Utilized Python, TensorFlow, Pandas, and Docker for efficient model deployment and scaling.

Skills

Languages: Python, Java, HTML, CSS, JavaScript, SQL, C, C++, MySQL, MongoDB, React, Django

Tools: Pytorch, Git, Terraform, Google Cloud Platform, Oracle Cloud Infrastructure, Docker, Excel

Computer Science Fundamentals: Object-oriented design, Data structures, Algorithm design, Complexity analysis

Databases: Relational databases

Research Experience

Undergraduate Research Assistant, Molecular Basis of Disease, GSU

Summer 2024

Conducted research on pretraining techniques for multimodal electronic health records (EHR) to improve predictive accuracy. Implemented and evaluated models using large-scale EHR datasets.