Quang Tran

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SUMMARY

Aspiring software engineer with 5 years of experience in data automation and reporting. Recently completed a B.S. in Computer Science and built full-stack and machine learning applications. Passionate about building scalable, user-facing tools and learning modern web technologies.

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, HTML5, CSS3, SQL
Frameworks & Libraries: Django, Flask, React.js, Node.js
APIs & Integration: RESTful APIs, Django REST Framework (DRF), JSON Web Token (JWT) Auth, Google OAuth 2.0
Scientific Libraries: Pandas, NumPy, scikit-learn, Matplotlib
Databases: PostgreSQL, MySQL, SQLite
Tools: Git, Docker, Postman, VSCode, Jira, Figma, Agile

RECENT PROJECTS

TravelBin – Collaborative Travel Planner Web App
React.js + Django + SQLite
- Developed a full-stack web application that allows users to plan and manage travel itineraries using a Django REST backend and a React.js frontend.
- Integrated Google OAuth to enable secure login and user-specific trip data.
- Designed and implemented responsive user interfaces based on wireframes created in Figma.
- Collaborated on task planning and progress tracking using Jira, and maintained a clean, version-controlled codebase with Git.
- Gained hands-on experience with REST API development, authentication, and component-based frontend architecture.

WGU ML Capstone Project – Machine Learning Weather Prediction
Python + Scikit-learn machine learning + Pandas + NumPy + Matplotlib + Tkinter
- Built a desktop application that predicts next-day and multi-day weather conditions for Worcester, MA using historical NOAA data.
- Designed and trained a linear regression model with Scikit-learn after evaluating and comparing performance with an LSTM model (TensorFlow).
- Developed an interactive GUI using Tkinter, enabling users to input recent weather data and view forecast results and visual trend plots.
- Created real-time data visualizations using Matplotlib to display temperature trends and prediction-confidence.
- Strengthened skills in data preprocessing, machine learning evaluation, and user interface development for real-world applications.

RELEVANT EXPERIENCE

Foundry   **Needham Heights, MA**
Data Report Specialist   June 2018 – April 2023
- Improved existing processes by automating and developing custom VBA tools, reducing execution time by over 90%.
- Designed and maintained data pipelines using VBA and SQL to process personally identifiable information (PII) while ensuring GDPR compliance.
- Led and streamlined reporting for 20–25 client reports daily using CRMs, Tableau, MySQL, and REST APIs.
- Diagnosed and resolved data integrity issues, significantly improving the accuracy and reliability of over 100 weekly reports.
- Enhanced pipeline efficiency and reporting workflows, contributing to faster delivery times and reduced system errors.
- Responsible for processes documentation and onboarding of new team members.

EDUCATION

Western Governors University
Bachelor of Science in Computer Science   Feb 2025

University of Massachusetts Amherst
Bachelor of Arts in Economics   Feb 2016