

Quang Tran

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TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, TypeScript, HTML5, CSS3, SQL

Frameworks & Libraries: Django, Flask, Express, React.js, Node.js, Vue.js, Pandas, NumPy, scikit-learn, Matplotlib

Databases: PostgreSQL, MySQL, SQLite

APIs & Integrations: RESTful APIs, Django REST Framework (DRF), JSON Web Token (JWT) Authentication, Google OAuth 2.0

Cloud & Infrastructure: AWS RDS, Docker, CI/CD (GitHub Actions, Jenkins)

Developer Tools & Practices: Unit Tests, Git, GitHub, Postman, Visual Studio Code, Jira, Figma, Agile/Scrum, GitHub Copilot, ChatGPT, Software Development Life Cycle (SDLC)

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 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.

Itinerary-Agent – AI-powered Itinerary Maker Quiz

Vue.js + Express + OpenAI ChatGPT

- Developed a full-stack web application leveraging Vue.js (Composition API, reactive state) and Express.js REST APIs, enabling seamless client-server communication.
- Implemented asynchronous API integration with Axios, including loading states, error handling, and JSON parsing for reliable data processing and compatibility with TravelBin in a microservices ecosystem.
- Designed and styled a responsive UI with modern CSS, ensuring accessibility and cross-browser compatibility.

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

Data Report Specialist

Needham Heights, MA

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