

Quang Tran – Software Engineer

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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.

WORK EXPERIENCE

Foundry

140 Kendrick St, Needham Heights, MA 02494

Data Report Specialist

June 2018 – April 2023

- Automated manual reporting tasks by 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.
- Delivered 20–25 client reports daily using CRMs, Tableau, MySQL, and REST APIs (Integrate platform).
- 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.

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

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.

More projects @ quangntran.com

EDUCATION

Western Governors University

Bachelor of Science in Computer Science

May 2019 - Feb 2025

University of Massachusetts Amherst

Bachelor of Arts in Economics

Sept 2011 - Feb 2016