

Quang Tran

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Summary

Aspiring Software Engineer with hands-on experience in backend development, data pipelines, and full-stack web applications. Proven ability to build scalable systems, integrate APIs, and automate workflows using Python, Java, SQL, and REST. Passionate about solving complex problems and contributing to impactful software projects.

Skills

Languages: Python, Java, JavaScript (ES6+), SQL, C++, VBA

Frameworks/Tools: Django, Flask, REST APIs, React.js, JavaFX, MySQL, Pandas, Scikit-learn, Matplotlib

Cloud & DevOps: AWS (RDS), Docker, Git, CI/CD (basic)

Other: Agile, Jira, Figma, GDPR compliance

Certifications: CompTIA Project+, ITIL 4 Foundation

Projects

Travel Webapp (Django, React.js) – Full-stack travel planner with Django REST APIs, Google OAuth, and trip management features. Led UI design with Figma, managed tasks in Jira, and maintained scalable codebase with Git.

Weather Forecasting (Python, ML) – Built ML models on 10K+ rows of weather data, achieving ≈85% accuracy; created Tkinter GUI for model training and forecasts.

Appointment Manager (Java, JavaFX, MySQL) – Multi-region scheduler for 1000+ user appointments with time zone conversion, OOP design patterns (MVC, Singleton), and persistent data storage.

Package Delivery Router (Python) – CLI app solving Traveling Salesperson problem for up to 50 addresses, reducing delivery time by ~30% using hash tables and Nearest-Neighbor algorithm.

Work Experience

Data Reporter, Foundry (IDG) – Needham, MA | Jun 2018 – Apr 2023

- Developed VBA tools automating data tasks, reducing completion time by 90%.
 - Built data pipelines in VBA/SQL for PII data, ensuring GDPR compliance, delivering 20–25 daily client reports via CRMs, Tableau, MySQL, and REST APIs (Integrate platform).
 - Resolved data discrepancies, optimized pipelines, and improved reporting speed and reliability for 100+ reports weekly.
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Education

B.S. Computer Science, Western Governors University (Feb 2025)

B.A. Economics, University of Massachusetts Amherst (Feb 2016)