Quang Tran

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TECHNICAL SKILLS

- Languages: Java, C++, Python, JavaScript, TypeScript, SQL, HTML5, CSS3
- Frameworks & Libraries: Spring Boot, Django, Flask, FastAPI, Express, React.js, Node.js, Vue.js, Pandas, NumPy, scikit-learn, Matplotlib, Playwright
- Databases & NoSQL: PostgreSQL, MySQL, SQLite, MongoDB, Redis (in-memory / NoSQL)
- APIs & Integrations: REST APIs, Django REST Framework (DRF), JSON Web Token (JWT) Authentication, Google OAuth 2.0
- Cloud & Infrastructure: AWS (EC2, S3, RDS), Docker, CI/CD (GitHub Actions, Jenkins)
- Developer Tools & Practices: Unit Testing, Git, GitHub, Postman, Visual Studio, Jira, Figma, Agile/Scrum, SDLC

RECENT PROJECTS

intonational – Microservices
FastAPI + MongoDB + Redis + Playwright
- Building a FastAPI-based microservices backend with clean architecture, service/repository separation, and Redis caching.
- Integrated rate-limited external APIs (weather, FX) with lazy caching + TTL to reduce calls and improve performance.
- Designed robust Pydantic domain models for time-series and aggregated data.
- Containerized services with Docker and structured APIs for scalability and maintainability.

TravelBin – Collaborative Travel Planner Web App
React.js + Django + Postgres
- 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 kept a clean codebase with Git.
- Gained direct experience with REST API development, authentication, and component-based frontend architecture.

Splitpush – Expense Sharing & Settlement Web Application (Splitwise-style)
Spring Boot + Java + PostgreSQL + REST APIs
- Developed a full-stack expense-sharing application that enables users to create groups, track shared expenses, and calculate balances owed between participants.
- Built RESTful APIs using Spring Boot with a layered architecture (controller, service, repository) and clean separation of concerns.
- Designed and implemented relational schemas in PostgreSQL to manage users, groups, expenses, and settlements with exact balance calculations.
- Implemented pagination on expense and group endpoints to improve performance and scalability for large datasets.
- Added server-side caching to reduce redundant database queries.
- Tested and validated API endpoints using Postman, ensuring data integrity across multi-user and multi-group scenarios.

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 updated 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.
- Oversaw processes documentation and onboarding of new team members.

EDUCATION

Western Governors University
Bachelor of Science in Computer Science   Feb 2025