Dustin Vu

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PROFESSIONAL EXPERIENCE

Paycom   Irving, TX
Software Developer   July 2023 - October 2024
- Customized and implemented payroll reports for international clients using **PHP** and **JavaScript**, coding tax rules to ensure 99% accuracy in tax calculations and compliance with local regulations.
- Optimized report generation time by refactoring legacy code and applying functional programming, cutting processing time from 2 hours to 20 minutes for large datasets (90% improvement).
- Boosted database performance by rewriting **MySQL** queries and adding indexes, increasing query speed by 35% and improving application security with **Docker** and **Splunk** monitoring.
- Collaborated with cross-functional teams via **Jira** and **Gitlab** to develop custom client payroll solutions, ensuring 95% on-time delivery through effective tracking and coordination.
- Utilized **ArcGIS ESRI** services to validate and enhance the geographic mapping accuracy of employee addresses, enabling precise tax code generation in compliance with regional tax regulations and supporting payroll reporting for 20,000+ clients.

Publicis Sapient   Houston, TX
Junior Software Engineer   June 2022 - July 2023
- Worked with 30+ cross-functional team members to meet project milestones and complete user stories in sprints using **Azure** agile development, achieving a 95% on-time delivery rate.
- Partnered with engineers to design software architecture and develop robust solutions, enhancing codebase reusability and simplicity, resulting in a 20% increase in client satisfaction and a 50% reduction in system errors.
- Accelerated development efficiency by 25% through modeling and managing **SQL Server** data using **.NET** frameworks.
- Streamlined reporting efficiency by 30% and accuracy by 25% through in-depth research and analysis of various data methods, accomplished in a successful migration from SQL Server Reporting Services to **Power BI**.

PROJECTS

Reactivities | Personal Project   April 2023
- Developed a cutting-edge social networking platform allowing users to sign up for events, using **ASP.NET** Core frameworks, **React** with **TypeScript**, and **PostgreSQL** database management.
- Utilized **Clean Architecture**, **CQRS** + **Mediator** pattern, **MobX** state management, and **SignalR** for real-time communication.
- Automatically deployed the production version with **GitHub Actions**, **Docker Hub**, and **Fly.io** integration.

E-Commerce | Personal Project   November 2022
- Architected an e-commerce web app for a restaurant using **ASP.NET** frameworks, **Typescript**, and **Stripe API**, enabling seamless payment processing and customer interaction.
- Integrated **JWT**, **React Redux,** and **Redux-Toolkit** Query/Mutations for robust state management and secure authentication.
- Deployed scalable API and React app on **Azure**, while storing static images on **Blob Storage** and database on **SQL Server**.

Wordle | Class Project   March 2022
- Implemented a **Java** Wordle game desktop application leveraging **OOP** system design that adheres to **SOLID** principles and declarative programming, with automated code quality checks using **Jenkins** for build stability and deployment reliability.
- Conducted 30+ test cases using **JUnit** and **Mockito** frameworks to maintain high code quality and bug-free performance.

EDUCATION

University of Houston   August 2020 - May 2022
Bachelor's Degree, Computer Science   **GPA**: 3.88/4.00
- **Award**: Dean's List & Transfer Excellence Scholarship (2020, 2021, 2022)
- **Coursework**: Data Structures and Algorithms, Software Design, Software Engineering, Operating Systems, Database Systems

SKILLS

Programming Languages: PHP, C#, ASP.NET, ReactJS, Java, JavaScript, TypeScript, SQL, JUnit Testing
Frameworks & Tools: Git, Subversion, Azure Cloud Platform, Splunk, Docker, Power BI
Certifications: Azure Fundamentals (AZ-900), Azure Data Fundamentals (DP-900), Azure AI Fundamentals (AI-900)