Dang Vo

Software Engineer

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Professional Profile

Software Engineer with 4+ years of experience in designing, developing, and maintaining responsive web applications. Specialized in JavaScript and .NET, with expertise in front-end technologies and cross-platform compatibility. Focused on delivering scalable applications with a product-driven mindset aimed at solving real-world problems. Proven experience in collaborating with cross-functional teams to create seamless and innovative web applications that delight users.

Primary stack: JavaScript, TypeScript, React, Angular, SQL (PostgreSQL), C#, .NET

Work History

08/2024 – present

Freelance Frontend Developer
Tech stack: HTML, CSS, JavaScript, React, Angular, WPF, C#

- Delivered custom web applications for clients in Vietnam, using React and Angular to build responsive and intuitive UIs that met the business needs.
- Collaborated with clients to gather requirements and propose technical solutions.
- Provided technical support, troubleshooting, and bug fixes to enhance application stability and user satisfaction.

07/2023 – present

Freelance Researcher
Technische Universität Chemnitz – Chemnitz, Germany
Tech stack: JavaScript, React, C#, C++, Three.js

- Presented and published a paper at IEEE ICCIMS 2024 on low-code technology and block-based coding for educational applications.
- Developed a block-based educational application using a modularization approach, ensuring future adaptability to new hardware devices.
- Enhanced academic research outcomes by collaborating with cross-functional teams to implement innovative software solutions.

12/2017 – 10/2023

Software Engineer
DiRoots Limited – London, United Kingdom
A premier software development company in the Architecture, Engineering, and Construction industry.
Tech stack: JavaScript, TypeScript, React, Angular, C#, WPF, .NET, Three.js

- Built responsive UIs in React and Angular, improving usability and visual consistency across devices.

- Reduced user task times by over 30% in HydroTechnic's web-based hydraulic tool through optimized siphonic roof drainage calculations.
- Led cross-platform development of multiple applications in C#, ASP.NET Core, WPF, and Angular, contributing to thousands of downloads and positive feedback.
- Streamlined deployment processes for 90+ applications, reducing delivery time by 75% through auto-updates, trials, and licensing features.
- Improved application reliability and user satisfaction by resolving installation and usage issues through collaboration with Support and QA teams.

Education

10/2020 – 06/2024	**Master of Science in Automotive Software Engineering** **Technische Universität Chemnitz,** Chemnitz, Germany (GPA: 1.5, Very good)

- Thesis title: "Remote Interface for Heterogeneous Demonstrators with Dynamic Functions."
- Reduced task completion time by 67% and improved student learning in automotive and drone systems with a block-based web application.

08/2013 – 05/2018	**Bachelor of Engineering in Computer Science** **Ho Chi Minh City University of Technology – Vietnam National University** Ho Chi Minh City, Vietnam (GPA: 7.84/10, Good)

- Thesis title: "Using Genetic Algorithm to Solve High School Timetabling Problem."
- Cut timetable generation time by 98%, from 1 week to 22 minutes, for 70+ teachers and 1500+ students through a two-stage genetic algorithm system.

Projects

- **Fugina Shop:** React, TailwindCSS, Context API, React Router
  - E-commerce platform with product listings, categories, shopping cart, and a responsive, fast UI for seamless mobile and desktop browsing.
- **Uplinx Dashboard:** React, TailwindCSS, Recharts
  - React-based dashboard for data visualization and management, featuring interactive charts, modular components, and a clean, responsive UI with TailwindCSS and Lucide icons.
- **TUC SWC Designer:** Angular, Node.js, C++, C#, ASP.Net
  - Block-based visual programming tool for automotive education, enabling hardware interaction through modular design and providing an intuitive UI for dynamic function control.

Skills

- **Languages:**
  - English - C1, German - A2 (Aiming to reach B1), Vietnamese - Native
- **Technical Skills:**
  - HTML, CSS, JavaScript, TypeScript, React, Angular, Tailwind CSS, D3.js, Three.js, Vitest, NUnit
  - C#, .NET, Node.js, PostgreSQL, ASP.NET Core, Express.js, Git, Agile (Scrum/Kanban)