

William To

Experienced software engineer with a focus on building engaging & accessible digital experiences

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Relevant Experience

Junior Full-Stack Software Engineer • **Picnet** Mar 2023 - Present

Software Developer Mar 2022 - April 2023

- Collaborate with top-tier Australian businesses and public sectors to deliver high-quality IT solutions.
- Employ advanced engineering techniques to enhance system functionalities and user experiences.
- Spearheaded database optimization initiatives by analyzing complex healthcare data and creating optimized SQL views, improving system performance and reporting capabilities.
- Implemented indexing and caching strategies that significantly increased the efficiency of data retrieval processes.
- Authored a detailed business case report on patient data analytics, influencing strategic decisions by NSW Health senior management.
- Mastered a suite of Microsoft technologies, including SQL Server Management Studio, Integration Services, Reporting Services, Analysis Services, and Data Tools.
- Engineered a robust security architecture for the NSW Health Web Application leveraging Active Directory, AngularJS, and .NET framework, enhancing system security and performance.
- Improved login times and authentication processes by 55%, optimizing user access and data security.
- Led a critical cloud migration project for the web application using Amazon Web Services, enhancing scalability and operational efficiency.
- Played a key role in the end-to-end testing and deployment phases, ensuring a seamless transition to cloud infrastructure.
- Produced and maintained comprehensive technical documentation, including database schemas, to ensure clarity and consistency in application development and maintenance.
- Designed and implemented a real-time monitoring dashboard using SvelteKit, IBM Carbon Design, Azure Web Services, and .NET Framework, streamlining operations and data accessibility.
- Developed and managed tools for Azure Integration Services using Azure API, optimizing system integration and performance.
- Adhered to stringent design and architectural standards during software development, ensuring high-quality outputs.
- Facilitated agile development processes within a cross-functional team, enhancing project agility and team productivity.
- Oversaw the successful deployment of the dashboard to Azure Web Application, ensuring operational excellence and service continuity.

Intern Software Developer • **OpenHomeLoan** Aug 2020 - April 2021

- Developed a custom home loan CRM web application using ASP.NET Framework and Sales Trekker API to facilitate loan comparisons and recommendations, enhancing customer decision-making processes.
- Led the full software development lifecycle of the CRM tool, from initial concept through to successful deployment, ensuring alignment with strategic business objectives.
- Designed and implemented responsive landing pages using HTML, CSS, and Bootstrap to support targeted marketing campaigns, significantly improving user engagement and lead generation.
- Coordinated a development team to achieve technical excellence and timely delivery of software solutions, fostering a collaborative and efficient work environment.

Skills

Programming Languages

JavaScript (ES2015+), Typescript, HTML, CSS, Sass, C#, Python, SQL

Databases

MySQL, PostgreSQL

Libraries & Frameworks

React, Next.js, Angular, Svelte, Node.js, Tailwind CSS, .Net Framework, AngularJS, Bootstrap, Astro

Tools & Platforms

Git, GitHub, WordPress, Azure, AWS, Terraform

Methodologies

Agile Methodologies, Restful Services/ API

Selected Projects

Dynamic Database Viewer

Developed a dynamic database viewer application using React and Next.js for responsive front-end and server-side rendering. Developed backend API services with Node.js and Express, integrating Carbon Design System for a seamless, user-friendly interface. Specialized in RESTful API integration and advanced UI interactions, delivering a robust tool for real-time database management and visualization. Technologies: React, Next.js, Node.js, Express, Carbon Design System

Personal Website

Developed a performance-oriented personal website using Astro, showcasing a modern design with optimized loading times and enhanced SEO. Implemented a robust CI/CD pipeline, ensuring automated testing and seamless deployment for continuous updates and high site availability. Technologies: React, Next.js, Node.js, Express, Carbon Design System

Education

University Of Technology Sydney (UTS)

Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice (Software)