

William To

Senior Software Engineer with 4+ years delivering scalable solutions across healthcare, fintech, and enterprise domains. Proven track record of measurable impact: 70% reduction in deployment effort, 4x throughput improvements, and 90% error reduction. Expert in full-stack development, cloud architectures (Azure/AWS), and leading technical initiatives.

Relevant Experience

Senior Software Engineer • PicNet Jan 2024 - Present

- Developed robust integration pipelines for Lightspeed, Xero, and Hello Club (APIs, enabling real-time synchronization of sales, billing, and activity across platforms.
- Led migration of legacy workloads to Azure, designing Infrastructure as Code (Terraform) and Azure Functions to automate provisioning of App Service, Key Vault, SQL Database, and Storage Accounts — enabling scalable, reusable infrastructure and reducing future onboarding and deployment effort by 70%.
- Optimised NSW Health database indexes (massive TB sized DB) and query plans, shrinking heavy workload-view response times from hours to minutes and unlocking timely insights for clinical analysts.
- Architected and deployed Lymbase on AWS with containerised Python-Flask microservices and a React frontend; implemented token-based, encrypted authentication and delivered high-performance clinician platform.
- Built advanced analytics and automated circumference-change detection in Lymbase, giving clinicians instant visual insights and cutting assessment time 30%.
- Established a unified secret management program leveraging- Azure Key Vault and AWS Secrets Manager; produced comprehensive governance guides, developer onboarding manuals, and CI/CD templates that automated organisation wide secret rotation and eliminated plaintext credentials-.
- Built data transformation utilities to ingest and normalize complex Excel-based garment datasets from leading compression manufacturers, automating migration into structured SQL-based repositories.
- Authored extensive unit & integration test suites for the data orchestration tool Centazio and engineered Linux-based Azure DevOps & GitHub Actions pipelines that build, test, and publish Docker images on every merge, ensuring deterministic releases and reducing post-release defects through DevSecOps.
- Managed end-to-end delivery for multiple PicNet clients, coordinating stakeholder communications, requirements gathering, issue tracking, and progress reporting tailoring project governance using both Agile (Scrum/Kanban) and Waterfall as needed.
- Collaborated with NSW Health to integrate four new patient-file formats into mLoad, automating ingestion workflows; eliminated legacy manual processes, reduced file-processing errors 90 %, and cut turnaround time 50%.

Junior Software Engineer • PicNet Feb 2022 - Jan 2024

- Modernised NSW Health patient-data uploader: built row-level validation engine and migrated FTP to Azure Blob SFTP, boosting throughput 4x and driving transfer failures to near-zero across statewide hospitals.
- Built a Power BI in-context commenting visual (TypeScript + Node.js) that auto-tags comments with the user's Power BI identity, boosting dashboard engagement 60% and eliminating email-based feedback loops.
- Re-platformed PicNet's website to Astro + AWS Amplify static-site architecture and set up GitHub Actions CI/CD, boosting Lighthouse performance from 60 to 97 and delivering automated, zero-downtime releases.
- Automated SharePoint-to-Azure SQL data workflows for Guide Dogs by engineering a metadata-driven Azure Functions pipeline, eliminating manual data entry and accelerating program reporting 80%.
- Upgraded NSW Health patient data application security model from legacy AD groups to lightweight RBAC, cutting login-to-dashboard latency 70% and simplifying onboarding for 600+ clinical users.

Intern Software Developer • OpenHomeLoan Aug 2020 - April 2021

- Built an ASP.NET + SalesTrekker API loan-automation engine that tripled approval speed and delivered personalised home-loan recommendations at scale.
- Developed responsive marketing pages raising landing-page conversion 25%.

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Core Competencies

Languages and Frameworks:

C#, Python, TypeScript/JavaScript, SQL, .NET Framework, ASP.NET Core, React, Angular, Svelte, Node.js, Express.js, Flask, Astro

Cloud & DevOps:

Azure, AWS, CI/CD (GitHub Actions, Azure DevOps), Docker, Infrastructure as Code (Terraform, Bicep), IIS

Data & Integration

SQL Server, PostgreSQL, Power BI, REST APIs, Excel Automation, SharePoint Integration, OAuth2

Architecture & Practices:

Microservices Architecture, Serverless Computing, Clean Architecture, OAuth2, RBAC, Test-Driven Development, Domain Driven Design, Event-Driven Design, Scalable API Design, DevSecOps

Non-Technical:

Stakeholder Management, End-to-End Delivery, Agile (Scrum/Kanban), Waterfall, Jira/ Confluence, Requirements Workshops, Backlog Grooming, Risk & Issue Management, Cross-Functional Collaboration

Personal Projects

Test Platform

Multi-tenant quiz builder with branded logos and timed questions; features JWT-based RBAC and automated CI/CD. Using NET 8, React, Vite, Tailwind CSS, Microsoft SQL Server

Education

University Of Technology Sydney (UTS)

Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice (Software) With First Class Honours

References

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