

William Tucker

Senior Software Engineer · Kelowna, BC

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Professional Summary

Senior software engineer with **12+ years** designing and shipping backend systems, data pipelines, and full-stack applications. Strong in object-oriented design, **C#/.NET, Oracle, REST APIs**, and **CI/CD**; experienced in legacy modernization (Classic ASP to .NET), ETL, and technical leadership. Delivers scalable integrations, clean APIs, and maintainable code. Thrives in collaborative teams and mentors junior developers. Experience in higher education; skills in system design and data management transfer to e-commerce, healthcare, and other sectors.

Core competencies: Backend & system integrations · Legacy modernization · CI/CD & DevOps · Oracle & SQL · Unit & integration testing · Agile/Scrum · Code review · Technical documentation & mentoring

Seeking: Backend, full-stack (.NET), or DevOps roles — *Kelowna or remote*

Technical Skills

Category	Technologies
Languages	C#, Java, JavaScript, TypeScript, Python, SQL, PL/SQL, T-SQL, Groovy, PHP, VBScript, PowerShell, XML
Backend / APIs	.NET 8, ASP.NET Core, Blazor Server, Classic ASP, REST, SOAP, Dapper, Entity Framework
Data	Oracle, SQL Server, stored procedures, schema design, ETL (Talend)
Frontend	Blazor, HTML/CSS, jQuery, modern JavaScript
Reporting	Crystal Reports, PL/SQL, T-SQL
DevOps / Tools	Git, GitLab CI/CD, PowerShell, YAML, multi-environment release (dev/test/prod)
Testing	Unit testing, integration testing, code review
Other	SSO/ADFS, token-based auth, IIS, Windows Server, Grails, Agile/Scrum

Experience

Programmer/Analyst — Vancouver Island University

Jul 2016 – Present · Nanaimo, BC

- **Led full modernization** of Facilities Information System from Classic ASP (15 files) to .NET 8 Blazor Server: campus, buildings, rooms, utilities, maintenance, and reporting; preserved Oracle backend and SSO; delivered in **4–6 weeks** with zero breaking changes; pattern adopted for later apps and documented in institutional conversion guide.
- **Architected and built** room-booking modernization: .NET 8 Blazor Server with SSO, Oracle integration, and feature parity with legacy system; documented technical reference for developers and analysts.
- **Established local development environment** for the full application suite: structure, tooling, and workflows for a **team of six developers**; designed and implemented CI/CD pipelines (GitLab) for develop/main with automated sync and controlled production deploys; manage and maintain code deployments across dev, test, and production.
- **Participate in Agile/Scrum** ceremonies (sprint planning, standups, retros) weekly and often more frequently; **contribute to code reviews** and **unit and integration testing** for new and modernized applications.
- **Designed and implemented** team developer handbook with stakeholder input; single source for development workflow, branching strategy, pipelines, and onboarding.
- **Develop** integrations and customizations from legacy systems to a modern cloud-based system using REST web services in C# .NET and Entity Framework, improving operational efficiency.
- **Recreate** legacy reports for Student and Financial data using Crystal Reports, PL/SQL, and T-SQL.
- **Troubleshoot** and fix defects across JavaScript, C# .NET, Classic ASP, Oracle, and SQL Server.
- **Re-implement** individual legacy ERP modules from Classic ASP to modern JavaScript libraries and RESTful web services.
- **Develop** ETL solutions to load data to and from cloud ERP using SOAP/REST and Talend.
- **Delivered** compliance work: reviewed and updated SQL/XML for CRA T4A/T2202A electronic filing (2026 standards); resolved XML output and parsing issues for student and vendor extracts.
- **Produce** technical documentation: architecture docs, runbooks, implementation and monitoring guides, and developer onboarding materials.

Software Analyst — Thompson Rivers University

Sep 2012 – Mar 2013 · Kamloops, BC

- **Designed and implemented** T.R.U. Student ID Card system in Java to encode ID cards; used by **thousands of students** and integrated with BC Transit buses and City of Kamloops.
 - **Created** Employee Survey system using the Groovy Grails stack, connected to Oracle; comprehensive reports and ETL jobs from the Oracle database for all departments including Finance, HR, Payroll, Student, and others.
 - **Delivered** Groovy Grails presentation at the BCNET Conference in 2015; **provided training** to employees on creating institutional reports, code reviews, and SQL tuning.
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Institutional Data Analyst — Thompson Rivers University

Sep 2012 – Mar 2013 · Kamloops, BC

- **Produced** reporting on Oracle data using SQL and PL/SQL.
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Institutional Report Coordinator (Co-op) — Thompson Rivers University

May 2012 – Dec 2012 · Kamloops, BC

- **Developed** institutional reporting using SQL, PL/SQL, and PHP.
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Education

Computer Science Diploma	Thompson Rivers University · 2010 – 2013
	<i>Computer Systems: Operations & Management, Computer Science</i>
J Journeyman Marine Technician	British Columbia Institute of Technology · 2003 – 2007
	<i>Trades</i>

Certifications

Certification	Issuer	Date
Java and Hibernate	TestDome	Aug 2021
SQL (Intermediate)	HackerRank	Aug 2021
Network+	CompTIA	Jan 2002
A+	CompTIA	Jan 2001

Key Projects & Outcomes

Project	Outcome
Facilities Information System modernization	Classic ASP (15 files) → .NET 8 Blazor Server; responsive UI (Bootstrap 5), same Oracle schema and SSO; 4–6 weeks, zero breaking changes; reference implementation for institutional conversion guide.
Room booking system	Legacy system modernized to .NET 8 Blazor Server with SSO and Oracle; feature parity, Find Room and booking flows, IIS deployment.
Local dev environment & CI/CD	Full application suite set up for local development; GitLab pipelines for develop/main; own code deployment and release process across environments.
Developer handbook	Designed and implemented with team input; central resource for workflow, branching, pipelines, and onboarding.

Last updated: February 2025