# Fredrich Irian Vilaga

Singapore | +65 92394404 | frvilaga@gmail.com

## Professional Summary

Senior Full-Stack Software Engineer with 5+ years of experience designing and delivering scalable enterprise applications using C#, .NET Core, Azure, SQL Server, TypeScript, and modern web frameworks. Proven ability to modernize legacy systems, develop secure APIs, and build cloud-native solutions that improve operational efficiency. Experienced in DevOps practices, CI/CD pipelines, and automation using Azure services. Strong collaborator and technical lead who translates complex business requirements into reliable, maintainable software solutions.

Core Tech Stack: C#, .NET Core, Blazor, TypeScript, JavaScript, Next.js, Microsoft Azure, SQL Server, Azure DevOps, CI/CD

## Professional Experience

Deloitte Singapore Tax Services Private Limited — Singapore

Software Engineer – Senior Analyst – Tech Lead | Jul 2023 – Present

- Modernized a legacy VB.NET platform into a modern architecture using C#, .NET Core, Blazor, and Azure, significantly improving performance, maintainability, and user experience.
- Designed and implemented RESTful APIs to integrate internal enterprise systems with external platforms and services.
- Developed multiple enterprise applications from concept to deployment, translating complex stakeholder requirements into scalable technical solutions.
- Automated internal operational workflows using Azure Functions, saving over 10 hours of manual work per week.
- Implemented and maintained CI/CD pipelines with Azure DevOps to streamline builds, testing, and production deployments.
- Integrated applications with SharePoint Online and internal enterprise services to improve document workflows and collaboration.
- Mentored junior engineers and provided technical leadership through architecture guidance, code reviews, and delivery oversight.
- Delivered enterprise solutions including tax submission systems, compliance platforms, and internal assessment tools used by operational teams.

- Explored enterprise AI capabilities using Azure AI Studio and large language models to evaluate opportunities for intelligent in-application assistance.

Software Engineer – Analyst | Oct 2020 – Jun 2023

- Developed and maintained internal .NET Core applications supporting Deloitte's operational and tax technology platforms.
- Designed and optimized SQL Server databases and Entity Framework queries, improving data performance and reducing query times by approximately 30%.
- Built RESTful API services enabling secure data exchange between internal applications and external client platforms.
- Collaborated with product owners, analysts, and engineering teams to deliver reliable solutions aligned with business requirements.
- Contributed to DevOps improvements including automated builds, deployment pipelines, and release processes.
- Worked within Agile Scrum teams, participating in sprint planning, development, code reviews, and continuous improvement initiatives.

## Education
Oxford Brookes University — Bachelor's Degree (Hons) in Computer Science (First Class Honours)

## Certifications
Microsoft Certified: Azure Fundamentals (Issued May 2021)

## Technical Skills
Languages & Frameworks: C#, .NET Core, Blazor, JavaScript, TypeScript, Next.js

Cloud & DevOps: Microsoft Azure, Azure Functions, Azure DevOps, CI/CD Pipelines

Databases: SQL Server, Entity Framework Core

Development: Full-Stack Development, REST API Design, Enterprise Applications, Agile/Scrum

Tools: Git, SharePoint Online

Emerging Technology: Azure AI Studio, LLM experimentation, AI-assisted enterprise tooling