

# DANIEL EMEHINOLA

## SOFTWARE ENGINEER

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### Professional Summary

Results-driven Full-Stack Engineer with extensive experience building and maintaining scalable backend and frontend systems in SaaS environments. Proficient in JavaScript, React, Node.js, and GraphQL, delivering secure code with high test coverage and robust documentation. Adept at collaborating with cross-functional teams to drive innovation and provide technical mentorship. Proven track record in API design and continuous improvement of software platforms.

### Technical Skills

- Languages: C#, JavaScript, Python
- Frameworks and Libraries: ASP.NET Core (MVC & Blazor), NextJS, React, NodeJS, Express
- Databases: Microsoft SQL, PostgreSQL, MongoDB, Oracle
- Tools: Tailwind CSS, Bootstrap, jQuery, Prisma, Shell Scripting
- Others: API design, system automation, security vulnerability analysis

### Professional Experience

#### Software Engineer

Transport Canada

September 2024 – Present

#### Responsibilities:

- Architected and deployed secure, scalable APIs with ASP.NET Core Web API, incorporating Swagger/OpenAPI for comprehensive documentation and integrating policy-based authorization, API versioning, and JWT/OAuth2-based authentication via Azure AD to adhere to industry documentation standards.
- Developed Blazor Server applications with a component-based design and SignalR integration for real-time data feeds, and implemented JavaScript interop to integrate legacy jQuery components, showcasing a commitment to quality code and cross-technology collaboration.
- Secured sensitive data by leveraging Azure Key Vault for storage and lifecycle management of API keys, connection strings, and certificates, and streamlined authentication using Azure Managed Identity, emphasizing robust API design and operational security.
- Optimized system performance by implementing distributed caching with Redis for data-intensive operations, applying cache aside and sliding expiration strategies to minimize database round trips and enhance real-time application responsiveness.
- Established automated CI/CD pipelines using Azure DevOps to support multi-environment rollouts, integrated unit testing, code coverage analysis, and artifact promotion stages, aligning with best practices in continuous integration and testing.

#### Software Engineer

SaskPower

April 2024 – September 2024

#### Responsibilities:

- Automated routine monitoring, backup, and batch processing tasks using custom shell scripts, reducing manual intervention and operational downtime while ensuring consistent system performance.

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- Optimized complex SQL queries for Oracle databases, enhancing data retrieval speeds and overall system responsiveness, demonstrating a strong attention to performance and efficiency.
- Enhanced the SCADA system's user interface to improve real-time data visualization and control for industrial processes, contributing to higher operational precision and user experience.
- Provided on-demand technical support by troubleshooting database and Linux system issues, ensuring high availability and performance of critical systems.

### Software Engineer

ISM Canada

November 2021 – February 2024

#### Responsibilities:

- Implemented custom Dynamics 365 CRM solutions, including entity model extensions, plug-in development (C#), and JavaScript form customizations to automate complex business processes and integrations.
- Developed and maintained Power Apps (Canvas and Model-Driven) with advanced power apps component framework (PCF) controls, leveraging Dataverse for data modelling, business rules, and security role configurations.
- Designed and orchestrated end-to-end workflows using Power Automate, integrating Dynamics 365, SharePoint, Azure Service Bus, and third-party REST APIs; optimized flows for performance and error handling with parallel branching and scopes.
- Built interactive Power BI reports and dashboards with complex DAX measures, calculated columns, and data modelling; implemented row-level security and incremental data refresh against Azure SQL and Dataverse sources.
- Developed RESTful APIs in ASP.NET Core Web API with versioning, Swagger/OpenAPI documentation, and JWT authentication; optimized EF Core queries with compiled queries, batching, and caching strategies.

### Projects

#### SaskTenders App

Developed a NodeJS web scraper to extract and analyse tender details from [www.sasktenders.ca](http://www.sasktenders.ca), providing critical data insights for business analysis.

#### SaskFund App

Engineered a loan eligibility checker using NextJS, Prisma, and PostgreSQL, enhancing the speed and accuracy of loan processing.

#### Client Feedback App

Built a survey platform in ASP.NET to streamline client feedback collection and analysis, improving customer satisfaction metrics.

#### FOREX & RBC Apps

Designed inventory management solutions using PowerApps and Dataverse, optimizing asset tracking and reporting processes.

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### **Payment Analytics App**

Supported ASP.NET-based application to generate detailed foreign exchange transaction reports, enabling informed financial decision making.

### **Education**

#### **Master's degree, Electronic Systems Engineering**

University of Regina

#### **Bachelor's degree, Electrical and Electronics Engineering**

Federal University of Technology Akure