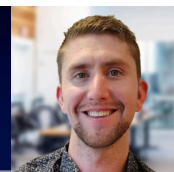


MICHAEL LOWENSTEIN

+1 403-667-0161 • michael@remoteinked.net
linkedin.com/in/mlo2qs • github.com/mllowenstein



PROFESSIONAL SUMMARY

Versatile Senior Software Engineer with a strong background in building and delivering scalable software for businesses of all sizes. Proficient in both front-end and back-end development, with a track record of launching successful products. Well-versed in the entire software lifecycle, from planning and design to production and delivery, and comfortable working directly with stakeholders to align technical efforts with their needs. Skilled at modernizing systems, creating technical documentation, mentoring team members, and developing practical solutions that balance short-term feasibility with long-term goals. Ready to step into any role or responsibility the situation demands to ensure project success.

WORK EXPERIENCE

Freelance Software Engineer

2024–Present

Senior Back-end Software Engineer at House Analytics

- Design and implement enterprise-scale .NET Core solutions, including CQRS Web APIs, database administration, and AWS infrastructure integration,
- Responsibilities included managing production releases, updating user and internal technical documentation, as well as the development and testing of both .NET-backend infrastructure, alongside NodeJS and Vue frontend clients
- Led the planning, prototyping, and deployment of back-end infrastructure for analytics products, modernizing legacy systems and creating a test automation framework to enhance efficiency and scalability - SQL & Python Scripting, Rust CLI Apps & .NET Core Integration Testing
- Develop and prototype a new Message Bus architecture, exploring multiple technologies such as AWS MQ/SQS, RabbitMQ, Redis, and Kafka to optimize communication and reliability
- Integrate machine learning features into production systems, driving the planning, presentation, testing, and successful deployment of these capabilities
- Collaborate directly with stakeholders to future-proof products, ensuring alignment with business goals, and author detailed documentation for end-users and internal teams

Senior Software Engineer at NCAL Engineering

- Develop and document end-to-end software solutions to optimize business operations, data management, and analysis while overseeing all aspects of the software development lifecycle
- Implement ETL processes to synchronize time-tracking APIs with production databases using NestJS, NodeJS JWT Token Authentication, and Redis Cache APIs
- Design and deploy invoice automation and analytics dashboards leveraging Angular 16, React UI, and C# .NET Core Authentication APIs, supported by NodeJS microservices for caching, file storage, and database access

- Build and extend a custom data management warehouse for engineering graphics and metrics using Angular 16/17, .NET Core Authentication APIs, and supporting NodeJS microservices
- Engineer and deploy machine learning models for anomaly detection across historical and live data entries, utilizing Python and TypeScript
- Manage DevOps pipelines and deployments using Azure Containers, App Services, in-house remote VMs, and Docker Compose to ensure seamless integration and system reliability

FullStack Labs

2022–2024

Senior Software Engineer

- Led the planning, design, and implementation of front-end systems for a Custom Cabinetry CRM/Project Management Application and an Enterprise Association Management Portal, leveraging Angular (versions 9-17), GraphQL, REST APIs, and .NET Core APIs (C# and F#)
- Built and deployed new Angular frontends and back-end authentication APIs for secure client login and account management, integrated with Python automated testing frameworks
- Co-led the design and implementation of functional components for the FullStack Labs Admin Application using React.js and Next.js while supporting DevOps tasks on Microsoft Azure
- Authored back-end ETL applications using TypeScript, Node.js Express, and NestJS frameworks with AWS cloud storage, streamlining automated daily database backups and enhancing infrastructure reliability
- Developed Rust CLI Apps & Python scripts and microservices for testing, data scraping, API synchronization, and time-tracking integration with Toggl API, alongside CRM data synchronization for Lever and HubSpot to ensure accurate and up-to-date customer data

Peloton Computer Enterprises

2017–2022

Software Engineer

- Developed a new web application, ProdView, for task scheduling and operations in the oil and gas sector, utilizing ASP.NET APIs, Angular 7, Cosmos DB, and Python microservices
- Created MVPs and proof-of-concept applications for client demos, integrating APIs, authentication servers, synchronization, and file storage using Node.js, TypeScript, JavaScript, and Express
- Designed and implemented Angular (versions 7–9) front-end MVPs to showcase features before full-scale planning, enhancing client feedback and refinement processes
- Maintained and enhanced the Land Management System for oil and gas clients by resolving bugs, developing features, and improving performance using Perl, Python, Rust, and JavaScript
- Managed Linux servers, optimized PostgreSQL and FreeBSD systems, and developed microservices using Node.js, TypeScript, and JavaScript to improve system reliability and efficiency

SIA Wealth Management

2016–2017

Software Developer Intern

- Rebuilt a legacy software application using modern web technologies, including the design and implementation of a User Settings Console to streamline account management and configuration processes
 - Developed a suite of financial market tools, including stock market analysis and visualization charts, as well as financial calculators, to improve data insights for users
 - Utilized MSSQL Server, ASP.NET (C#), JavaScript, jQuery, Bootstrap, and Python test suites to ensure robust application performance and reliability
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EDUCATION

University of Calgary, Calgary, AB, Canada
Bachelor of Science in Kinesiology and Computer Science

2017

CORE SKILLS & CERTIFICATIONS

Software Development, Project Design & Management, Angular, React, Next.js, Vue, Python, Node.js, Nest.js, Express, C#, ASP.NET, .NET Core, Real-time Analytics, Discovery, Optimization, TypeScript, JavaScript, HTML, CSS, SCSS, Perl, Rust, PostgreSQL, MS SQL Server, NoSQL, AWS, Heroku, Azure, Remote VMs, Docker, Kubernetes, Shell Scripting, Linux System Administration, DevOps