

# MILAN THAPALIYA

+977 9843912110

thapaliyamilan8@gmail.com

Portfolio | LinkedIn

Software Engineer with **5+ years** of experience designing and building secure, scalable US healthcare systems in highly regulated environments. Strong background in full-stack development, multitenant architecture, database performance optimization, and data visualization. Experienced in delivering reliable applications that meet strict regulatory and security standards.

## PROFESSIONAL EXPERIENCE

---

### DEERHOLD LTD.

Software Engineer

**Lexington, Massachusetts**

*March 2022–Present*

- Develop and maintain secure, compliant, and scalable healthcare applications under HIPAA regulations
- Collaborate with cross-functional teams to gather requirements and design software solutions that meet healthcare industry standards and user needs
- Create and optimize database structures, queries, and stored procedures for healthcare data storage and retrieval using SQL
- Implement security measures, including encryption and access controls, to protect sensitive patient data

### *Project Experience*

#### **New Era Medical Operations - Risk Modeling and Analytics**

- Contributed to changing the application from a single-client architecture to a multitenancy architecture
- Integrated Auth0 to manage user identities, authentication, and authorization within the application
- Integrated Amazon QuickSight into the application to provide advanced data visualization and analytics capabilities
- Implemented query optimizations and caching strategies to ensure faster data retrieval and response times for end-users
- Collaborated with the design team to implement the functionality of UI components

#### **BeneBay - Health Risk Management and Health Plans Administration**

- Designed and delivered full-stack features, building APIs, integrating databases, and developing responsive frontend components.
- Implemented Auth0 to manage user identities, authentication, and authorization within the application
- Successfully maintained multiple web portals catering to distinct user groups, including employers, members, and healthcare providers
- Maintained and supported a production application serving 11K+ active users, ensuring uptime and performance

## AERION TECHNOLOGIES

Australia

Full Stack Developer | Part-Time Contract

Jan 2025-Jan 2026

- Worked as a Full-Stack Developer on Australian-based projects, contributing to two major applications
- Implemented Stripe payment processing, subscription management, and webhook handling for billing workflows
- Researched and implemented Azure AI Search across multiple projects

### *Project Experience*

#### **Site Inspections - Streamline property inspections with comprehensive booking, scheduling, and reporting tools**

- Implemented Azure AI Search to enable semantic search across standards. This allows inspectors to assign relevant items quickly
- Implemented real-time calendar synchronization by generating dynamic .ics file responses.
- Implemented Stripe subscription management, including plan upgrades with immediate effect, seat-based licensing, and webhook handling for subscription lifecycle events
- Integrated Postmark email notifications

### *Project Experience*

#### **LOMA - Platform designed to make democracy more transparent and accessible**

- Scraped and populated data for bills, divisions, politicians, and election electorates and localities
- Integrated Kinde Auth to manage user identities, authentication, and authorization within the application
- Contributed to building a data pipeline to regularly fetch and sync the latest bill data
- Contributed to delivering a complete solution for the 2025 Australian elections
- Implemented Azure AI Search, managed data indexing and syncing

## EDUCATION

---

### TRIBHUWAN UNIVERSITY

Kirtipur, Kathmandu

Bachelor of Computer Science and Information Technology

2016-2020

## SKILLS

---

- **Programming Languages:** JavaScript, TypeScript, Java
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Frameworks & Libraries:** Node.js, NestJs, Spring Boot, React.js, Next.js
- **Testing:** Jest(Unit Testing)
- **Version Control & Collaboration:** Git, GitHub, GitLab, Azure DevOps, Jira
- **Cloud Technologies:** AWS, Azure
- **Third-Party Integrations:** Stripe (Payment Processing, Subscription Management, Webhooks), Azure Cognitive Search, Postmark (Transactional Email Infrastructure)
- **AI-Assisted Developer Tools:** Cursor, Claude, OpenAI Codex