VAN NGUYEN Full Stack Developer | Cloud & Data Engineer

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Results-driven Software Engineer with 4+ years of engineering experience spanning **cloud-native systems, data platforms, telecom (VoIP/IPTV), and healthcare IT**. Proven ability to design secure, scalable solutions across AWS, Azure, and Google Cloud. Recognized for delivering **production-ready systems**, data-driven decision support, and award-winning architecture. Strong at bridging backend complexity with reliable, user-focused applications.

CORE SKILLS

- **Cloud & DevOps:** AWS (ECS/Fargate, ECR, RDS, S3, IAM), Azure DevOps (CI/CD, Pipelines), Docker, Google Apigee, Linux
- **Backend:** C# (.NET 8), Node.js (Express), REST APIs, SQL Server, MongoDB
- **Frontend & Mobile:** React, Flutter, TypeScript, Dart
- **Data & Analytics:** SQL, Power BI, SAS, ETL Pipelines, Predictive Modeling
- **Healthcare & Systems:** HL7 FHIR, ICD-10-CA / CCI, VoIP (SIP), HLS Streaming

FLAGSHIP PROJECTS

Rescue Link – Cloud-Native Disaster Response Platform London, ON | Sep 2025 – Dec 2025

1st Place Capstone Project

- Architected a scalable microservices platform on **AWS ECS (Fargate)** using containerized services and immutable deployments.
- Implemented **Zero Trust API access** via Google Apigee and IAM least-privilege policies.
- Enabled real-time geospatial visualization and secure media handling using Google Maps API and Amazon S3

Tech Stack: AWS | .NET 8 | React | Docker | Apigee

ICD-10-CA Helper — AI-assisted coding app London, ON | Apr 2025 – Aug 2025

- Built a secure web-based application to assist medical coders in identifying ICD-10-CA diagnosis and intervention codes, aligned with CIHI guidelines.
- Integrated **Gemini 2.5 Pro** and **ChatGPT-4o** to analyze patient charts and clinical documents, returning relevant codes, descriptions, and flagging **required additional codes.**
- Processed and normalized complex government healthcare datasets to support full ICD-10-CA and CCI hierarchy navigation.
- Presented **at *CHIMA HIP Week 2025*** and ***Canada Health's Emerging Innovators January 2026***.

Tech Stack: NestJS | React | AI APIs | ICD-10-CA | CCI | CI/CD

PROFESSIONAL WORK EXPERIENCE

HD Telecom Inc. – Software Engineer Intern (VoIP & Full Stack) Toronto, ON | Aug 2025 – Jan 2026

- Deployed **FreePBX (Asterisk)** servers on **Google Cloud Compute Engine**, configuring SIP trunks and inbound/outbound routes. Engineered an **automated provisioning API** to dynamically register extensions for new employees and securely manage credential lifecycles, eliminating manual system administration.
- Developed a unified employee application using **Flutter** and **Dart** (Android/Web), integrating a **SIP softphone client** for secure internal dialing and a real-time scheduling module for staff to block off time and manage shift availability.
- Implemented **Text-to-Speech (TTS)** and **Speech-to-Text (STT)** features by integrating external AI APIs, enabling automated voice interactions for appointment booking workflows.
- Developed a **Node.js (Express)** backend to handle call logic and booking validation, designing secure RESTful endpoints that interface between the telephony server and the mobile application.

Fansipan Technologies – Software Engineering Intern (Media Systems R&D) Toronto, ON | Sep 2024 – December 2024

- **IPTV Data Engineering:** Analyzed and implemented ingestion pipelines for **Xtream Codes** and **XMLTV (EPG)** formats, handling complex metadata structures for Live TV and VOD catalogs.
- **High-Performance Client Architecture:** Architected a **Flutter-based IPTV client** capable of parsing **20,000+ live channels** from Xtream Codes APIs in under 2 seconds using **Hive (NoSQL)** for local caching.
- Validated player compatibility against diverse **third-party IPTV middleware providers**, debugging authentication handshakes (Xtream Codes API) and optimizing stream stability across heterogeneous server configurations.

PPG Industries Inc. – Data Specialist

Woodstock, ON | Jul 2017 – Sep 2022

- o Built a predictive analytics dashboard in **Power BI** to model paint-line downtime and defect spikes from SPC, OEE, and repair codes. Delivered real-time alerts and staffing recommendations that leveled capacity and cut unplanned slowdowns by **12%.**
- o Developed and automated **SAS** programs and **SQL** queries to monitor production and inventory KPIs, reducing manual data handling and improving reporting speed by **85%**.
- o Performed **bottleneck and queue analysis** on cycle times and rework queues; implemented threshold-based rules to reallocate technicians between booths and the repair deck, improving throughput and reducing backlogs during peak demand.

EDUCATION

Advanced Diploma, Software Engineering Technology   Dec 2025
Centennial College, Toronto

Graduate Certificate, Health Systems Management   Aug 2025
Fanshawe College, London

Bachelor of Engineering Science (BESc)   May 2017
Western University, London

PROFESSIONAL AFFILIATIONS

Canadian Health Information Management Association (CHIMA) — Student Member
Digital Health Canada — Student Member
HL7 International — Student Member