Mehdi Ebrahimzadeh

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EDUCATION

Conestoga College | 🔗   Waterloo, ON

Advanced Diploma in Software Engineering Technology (Co-op)   (GPA: 4.0/4.0)   Sep 2024 – Apr 2028 (Expected)

- **Scholarship from Global Affairs Canada   — Recipient** 2025–2026; **CAD $29,000 award.**
- **Achieved 100% in Data Structures and Algorithms**; maintained a **first-year average of 95%.**
- **Selected A+ courses:** Object-Oriented Programming; Operating Systems; Software Engineering.

SKILLS

Languages: C#, Python, C/C++, Java, TypeScript, Golang, Rust, SQL, HTML/CSS

Frameworks/Libraries: .NET Core, SignalR, Django, Node.js, NumPy, Pandas, gRPC, WebSockets, React, Next.js

Tools/Platforms: Docker, Kubernetes, AWS, Git, CI/CD, Kafka, SQL Server, PostgreSQL, Redis, MongoDB

WORK EXPERIENCE

Oktav   Waterloo, ON

Co-Founder & Lead Software Engineer   *May 2025 – Sep 2025*

- Built **Go/.NET backends**; designed **8 services** and **24 gRPC APIs**; integrated **OAuth2/OIDC** with **JWT**.
- Cut build time **45%** and **tripled release speed** via **CI/CD** and **Docker** containerization for 12 services.
- Boosted uptime to **99.9%** with **structured logging** and tracing; reduced team MTTR by **38%** via monitoring.

Versall   Toronto, ON

Backend Developer & System Designer   *Sep 2024 – May 2025*

- Shipped an **AI platform** with 5 **Node.js modules** for auth, billing, scheduling, and payment processing.
- Engineered scalable **WebSocket services** with health checks and **autoscaling** to improve real-time UX speed.
- Reduced **MTTR** by **29%** via **Kafka eventing** and **distributed tracing** for accelerated incident triage.

Intelligent Innovations Lab   Peterborough, ON

Software Engineering Intern   *Jan 2025 – Apr 2025*

- Reduced **tech debt 30%** by documenting 6 services with 12 **architecture diagrams** and detailed roadmaps.
- Cut deployment time **50%** by implementing automated **GitHub Actions pipelines** for 12 Docker services.
- Integrated **Flutter** and **web UIs** with backend services, boosting feature delivery velocity to 18 per quarter.

Douran Co.   Remote

Software Engineering Intern   *Sep 2022 – Apr 2023*

- Refactored **.NET backends** using **async I/O** to boost throughput **30%** and stabilize high-traffic hot paths.
- Optimized **SQL Server** and **PostgreSQL** schemas for **100k+ daily transactions**; reduced database lock waits.
- Cut security incidents **15%** via **endpoint hardening** and rigorous code reviews across backend services.

PROJECTS

BioCheck AI | 🔗   *Stack: React • ASP.NET Core • PostgreSQL • Docker*

- Built a **privacy-first pipeline** to normalize medical results into clinician-ready reports via **local APIs**.

Health Monitoring System | 🔗   *Stack: Python • Go • Rust • NumPy/Pandas • OpenAI API*

- Monitors temperature, pulse, and SpO_2 via **fuzzy logic** and **GenAI** (OpenAI + Google) for vital analysis.

AI-Enhanced App Generator | 🔗   *Stack: Python • SQLite • PyTorch • scikit-learn*

- Built an **LLM-driven GUI generator** with a **machine learning feedback loop** and automated logging.

Data Structures Visualizer | 🔗   *Stack: React • C • CivetWeb*

- Engineered a **full-stack educational platform** to visualize complex algorithms via interactive components.

ACHIEVEMENTS & CERTIFICATIONS

- **Top 10 Finalist** at **Velocity (University of Waterloo)** — for Oktav, Deep Tech Initiative — 2025.
- **2nd Place** — **ConHacks 2025 Hackathon.**
- Certified Ethical Hacker (**CEH**); SANS **SEC 504**; Linux Certifications **LPIC-1 & 2**.