

# Mehdi Ebrahimzadeh

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## EDUCATION

<b>Conestoga College</b>   	Waterloo, ON
<i>Advanced Diploma in Software Engineering Technology (Co-op)</i> (GPA: 4.0/4.0)	Sep 2024 – Jun 2028 (Expected)
<ul style="list-style-type: none"><li>Scholarship from Global Affairs Canada — Recipient 2025–2026; CAD \$29,000 award.</li><li>Achieved 100% in Data Structures and Algorithms; maintained a first-year average of 95%.</li><li>Selected A+ courses: Object-Oriented Programming; Operating Systems; Software Engineering.</li></ul>	

## 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

<b>Oktav</b> <i>Co-Founder &amp; Lead Software Engineer</i>	Waterloo, ON May 2025 – Sep 2025
<ul style="list-style-type: none"><li>Built Go/.NET backends; designed 8 services and 24 gRPC APIs; integrated OAuth2/OIDC with JWT.</li><li>Cut build time 45% and tripled release speed via CI/CD and Docker containerization for 12 services.</li><li>Boosted uptime to 99.9% with structured logging and tracing; reduced team MTTR by 38% via monitoring.</li></ul>	
<b>Versall</b> <i>Backend Developer &amp; System Designer</i>	Toronto, ON Sep 2024 – May 2025
<ul style="list-style-type: none"><li>Shipped an AI platform with 5 Node.js modules for auth, billing, scheduling, and payment processing.</li><li>Engineered scalable WebSocket services with health checks and autoscaling to improve real-time UX speed.</li><li>Reduced MTTR by 29% via Kafka eventing and distributed tracing for accelerated incident triage.</li></ul>	
<b>Intelligent Innovations Lab</b> <i>Software Engineering Intern</i>	Peterborough, ON Jan 2024 – Apr 2025
<ul style="list-style-type: none"><li>Reduced tech debt 30% by documenting 6 services with 12 architecture diagrams and detailed roadmaps.</li><li>Cut deployment time 50% by implementing automated GitHub Actions pipelines for 12 Docker services.</li><li>Integrated Flutter and web UIs with backend services, boosting feature delivery velocity to 18 per quarter.</li></ul>	
<b>Douran Co.</b> <i>Software Engineering Intern</i>	Remote Sep 2022 – Apr 2023
<ul style="list-style-type: none"><li>Refactored .NET backends using async I/O to boost throughput 30% and stabilize high-traffic hot paths.</li><li>Optimized SQL Server and PostgreSQL schemas for 100k+ daily transactions; reduced database lock waits.</li><li>Cut security incidents 15% via endpoint hardening and rigorous code reviews across backend services.</li></ul>	

## PROJECTS

<b>BioCheck AI</b>   	Stack: React • ASP.NET Core • PostgreSQL • Docker
<ul style="list-style-type: none"><li>Built a privacy-first pipeline to normalize medical results into clinician-ready reports via local APIs.</li></ul>	
<b>Health Monitoring System</b>   	Stack: Python • Go • Rust • NumPy/Pandas • OpenAI API
<ul style="list-style-type: none"><li>Monitors temperature, pulse, and SpO<sub>2</sub> via fuzzy logic and GenAI (OpenAI + Google) for vital analysis.</li></ul>	
<b>AI-Enhanced App Generator</b>   	Stack: Python • SQLite • PyTorch • scikit-learn
<ul style="list-style-type: none"><li>Built an LLM-driven GUI generator with a machine learning feedback loop and automated logging.</li></ul>	
<b>Data Structures Visualizer</b>   	Stack: React • C • CivetWeb
<ul style="list-style-type: none"><li>Engineered a full-stack educational platform to visualize complex algorithms via interactive components.</li></ul>	

## 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.