Jan Beyati

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EDUCATION

Carleton University - Ottawa, Ontario
Bachelor of Science in Software Engineering   September 2020 - April 2026

WORK EXPERIENCE

Software Engineering Intern   September 2023 - September 2024
Barracuda Networks
Ottawa, ON

- Designed and implemented critical backend features using **C# .NET**, delivering enterprise-grade functionality that met performance benchmarks and customer requirements.
- Automated deployment processes through **CI/CD pipeline** development using **YAML** scripts, enabling continuous integration and reducing release cycle time.
- Architected **RESTful APIs** and front-end integrations, ensuring seamless data synchronization between client and server layers across the application stack.
- Optimize performance using **code splitting** and **lazy loading**, ensuring fast load times and smooth UX.

Web Application Design and Build   September 2025 - Present
JB Interactive Media
Ottawa, ON

- Build production-ready web applications leveraging **Next.js 14, TypeScript**, and **React** for optimal performance.
- Develop responsive, accessible user interfaces with smooth animations and intuitive navigation.
- Architect modular component structures enabling scalable, maintainable codebases for client projects.
- Optimize application performance through code splitting, lazy loading, and **efficient state management**, delivering fast load times and enhanced user experience.

SOFTWARE PROJECTS

Full-Stack CRM Platform

- Architected and developed a full-stack **CRM** using React 19, TypeScript, and **Supabase**, enabling sales teams to manage **10,000+** contacts, companies, and deals with real-time data synchronization.
- Implemented email-to-note automation using **Postmark webhooks** and Supabase **Edge Functions**, automatically capturing and categorizing inbound emails as contact notes, reducing manual data entry by **60%.**
- Developed multi-provider **OAuth authentication** (Google, Azure, Auth0) with **Row Level Security (RLS)** policies in **PostgreSQL**, ensuring secure, role-based access control for multi-tenant environments.

Full-Stack Laboratory PPE Detection Using Deep Learning

- Developed real-time video processing system using **FastAPI,** async/await patterns, and cascading **YOLO** models with multi-stage detection pipelines, achieving sub-second inference latency through optimized **OpenCV** stream processing.
- Architected scalable edge computing backend with **RBAC, JWT authentication** via Supabase, RESTful APIs, and **microservices architecture** including violation detection engine, cloud sync service, and automated email reporting.
- Implemented distributed system components with intelligent stream reconnection, **IoU-based person tracking algorithms**, violation debouncing mechanisms, and real-time database synchronization.

HomeLab

- Orchestrated **10+ microservices** using **Docker Compose**, implementing automated deployment via **GitHub Actions**.
- Configured reverse proxy infrastructure with **Nginx Proxy Manager** and **Let's Encrypt SSL certificates**, enabling secure **HTTPS** access across multiple domains.
- Designed and deployed a containerized infrastructure stack including media servers, **DNS filtering**, monitoring tools, and **IoT automation**, demonstrating expertise in **infrastructure as code** and service orchestration.

TECHNICAL SKILLS

Languages:	C#, TypeScript, JavaScript, Python, C, SQL
Frontend:	React, Next.js, HTML/CSS
Backend:	FastAPI, .NET, Node.js
Databases:	PostgreSQL, Supabase
DevOps/Cloud:	Docker, Docker Compose, GitHub Actions, CI/CD, Nginx, Linux/Unix
Tools:	Git, YAML, OpenCV, YOLO, Postmark, Auth0
Concepts:	Microservices Architecture, RESTful APIs, OAuth, JWT, RLS, System Design