

Ty Nasello

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SKILLS

Languages: TypeScript | Python | Rust | Golang | SQL | Java | C++

Technologies: Docker | AWS | Kubernetes | PostgreSQL | NoSQL | React.js | Kafka | NestJS | GraphQL | Git

WORK EXPERIENCE

MedMe Health | Software Engineer Intern | Toronto, 05/2023 - 08/2023

- Developed microservices to deliver **real-time data streaming** capabilities to customers using Typescript and AWS.
- Designed and constructed a system to proxy and pool database connections using AWS and the CDK, resulting in **optimized resource utilization and scalability** of production databases and serverless infrastructure.
- Core member in unlocking a **new revenue stream** for the company through performing change data capture on millions of records per day and normalizing, filtering, and sending events downstream for customer consumption. (Python, PostgreSQL)
- Implemented the company's **first webhook API system** using TypeScript and Amazon Web Services (API Gateway, Lambda, Cognito), enabling customers to self-serve integrations and data-driven operations.
- **Increased QoL of developers** and helped shape serverless testing standards by constructing a testing utilities package.

Orbiseed Technology | Software Engineer Intern | Toronto, 09/2022 - 10/2022

- Engineered REST API endpoints enabling insurance carriers to store, manage, and download AI-processed documents and reports using Typescript, Express.js, MongoDB, and AWS S3.
- Developed front-end dashboards using React.js, allowing users to upload and interact with a variety of document types.

MedMe Health | Software Development Intern | Toronto (Remote), 01/2022 - 04/2022

- Developed pharmacist dashboards and patient-facing intakes using TypeScript, React.js, GraphQL, and Redux, for web applications empowering nearly **3000 Canadian pharmacies** to provide clinical services at scale.
- Initial driver in unit testing new React components (Jest), resulting in increased test coverage of frontend codebase.
- Designed a tool for patient PDF-mapping that outsourced work to non-developers and **increased team efficiency**.

EDUCATION

Bachelor of Computer Science (BCS) | Computer Science, Honours, Co-op | 2021-2026

University of Waterloo

GPA: 91.3% Cumulative

Dean's Honours List (Winter 2023)

PROJECTS

Event-Driven Microservices | 04/2023 | GitHub Link

- Constructed a microservice-based warehousing system, leveraging Kafka for event-driven communication between Kubernetes-managed services.
- Created a CLI with Rust to oversee operations/events, and implemented critical functionalities of the system including secured APIs, and event emission and handling using technologies like Golang, Rust, Java, Python, and SQL.

Clean Architecture Template | 12/2022 | GitHub Link

- Developed a highly modular and loosely coupled monolithic application adhering to the Clean Architecture design philosophy. Serves as a robust starting template for developers featuring a REST API, JWT authentication, WebSockets, and comprehensive testing (TypeScript, NestJS, PostgreSQL, Docker).