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Liam Cooper

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github.com/liamcoop

Experience

EducationPlannerBC **Victoria, BC**
Lead Full-Stack Developer July 2021-Present

- Leading the migration of a post-secondary application service from IdentityServer4/.NET MVC with React to Next.js, enhancing performance, accessibility, and developer productivity
- Designed and developed event-driven services for processing applications using Go, NATS JetStream, and MSSQL
- Integrated the BC Services Card digital ID to streamline user signup and auth with secure, government verified credentials
- Implemented a Meilisearch-based academic history feature that simplified data entry and improved user satisfaction
- Led development of cross-functional projects, serving as the engineering point of contact with product, design, and leadership
- Accelerated project delivery and quality by conducting technical interviews, hiring and mentoring 8 new developers

Eddyfi Technologies - Inuktun **Nanaimo, BC**
Electrical Engineering Co-op Jan-Apr 2020

- Designed high voltage power distribution hardware for submersible remotely operated vehicles
- Authored design documentation, technical references, testing plans, and standard operating procedures for ROV systems
- Standardized a system for flashing microcontroller configurations, reduced device misconfigurations by 10%, reduced waste of critical components with long lead-times, derisking large orders and saving ~12 QA hours/month
- Conducted manual QA and triaged issues in Azure Boards, identified critical issues and improved release quality

Projects

Code samples, demos, and additional information available at github.com/liamcoop

Distrace: Distributed tracing backend for correlating OpenTelemetry spans into complete traces **Go**
Kafka
OpenTelemetry

- Built a correlation engine that assembles out-of-order spans from multiple services using TraceID-based grouping and parent-child relationship resolution
- Implemented intelligent trace completion strategies with 30-second inactivity timeouts and 5-minute maximum age limits to balance completeness with memory management
- Designed event-driven architecture consuming OTLP protobuf messages from Kafka, processing spans through goroutines and channels with backpressure handling

TimeTracker: Easily and efficiently keep track of time spent working on different projects **TypeScript**
Next.js
PostgreSQL

- Track session time and notes for time spent on different projects/serving different clients
- Review weekly summaries and add data into your billing software all at once

Education

B.Eng., Electrical Engineering University of Victoria 2015-2020

Skills

Languages	TypeScript, JavaScript, Go, C#, C++
Frontend	Next.js, React, Redux, TanStack Query, TailwindCSS, Storybook, Jest, Vite/Webpack
Backend & Infrastructure	OAuth2, IdentityServer4, REST APIs, Kubernetes/k8s, Goose, Prisma, OpenTelemetry
Databases & Search	MSSQL, PostgreSQL, MeiliSearch
Messaging	Kafka, NATS
Other Tools	Git, Docker, Figma, Azure Boards
Spoken Languages	English (native), French (fluent)