

# Ben Vinnick

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## EDUCATION

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### University of British Columbia

Vancouver, BC

Bachelor of Science, Major in Computer Science

Sept 2019 - Expected Apr 2025

Cumulative GPA: 3.9; Dean's List (2019 - 2021)

Courses: Software Construction (Java), Software Engineering (TypeScript), Algorithms & Data Structures (C++), Computer Hardware and Operating Systems (C), Computer Networking (C), Relational Databases

## WORK EXPERIENCE

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### Thinkwell Studio Montreal

Montreal, Quebec (Remote)

Software Developer (Co-op)

July 2022 - Aug 2023

- Collaborated on Feltboard content management app for experience design industry with **Node** and **Vue**
- Setup Datadog monitoring and alerting in GKE clusters, configuring integrations, synthetic tests, and monitors
- Developed payload analytics feature with **GCP Cloud Functions**, **IoT Core**, and **Pub/Sub** to track payload deliverability and latency across multiple services
- Deployed analytics feature with **Terraform** and connected it to **Datadog**
- Created **TypeScript** validation tool to maintain backward compatibility of payloads
- Set up and deployed image resize proxy using **Docker**, **Nginx**, and **GKE**
- Implemented a YAML parser to validate user input in new mapping feature
- Wrote tests with 100% coverage for multiple backend features using Mocha and Chai
- Refactored **Node GraphQL** backend to support new enrollment system

### University of British Columbia

Vancouver, BC

Teaching Assistant

Sept 2021 - Dec 2022

- Taught fundamental programming skills and structures with **Racket**
- Led weekly labs and office hours for over 1200 students over three academic semesters
- Received 100% favourable rating from over 70 students

## PROJECTS

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### DLS

July 2023 - Present

- Co-created **Rust** CLI to share secrets with other developers over websockets
- Secured messaging with TLS and end-to-end encryption

### Essentially

Jan 2023 - Apr 2023

- Collaborated on Chrome extension that provides web page summaries
- Deployed via **AWS CDK**, **Lambda**, and **API Gateway** and performed **Node** code refactoring during the process

### Are You Taking

July 2022

- Co-created web app with **Next** and **Node** to allow UBC students to compare their course schedules side by side
- Users can seamlessly share their weekly schedules through iCal file uploads and dynamic calendar links

### Sports Macros

Oct 2021

- Independently created web app that automatically generates macros for media captioning
- Used every Vancouver Canucks home game by professional NHL photographers

## SKILLS & ACTIVITIES

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**Languages:** TypeScript, Python, Rust, Java, C, Bash

**Tools:** Docker, Kubernetes, Terraform, GCP, AWS, Node, Vue, React, MongoDB, PostgreSQL, Apollo GraphQL

**Activities:** UBC Launch Pad Backend Developer (Jan 2023 - April 2023), UBC Technical Career Fair Support Team (Jan 2021)

**Interests:** Muay Thai, hockey, bass, psychology, plants