

# Hristo Sandev

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## EXPERIENCE

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### Shopify

May 2025 – Aug. 2025

*Software Engineer Intern*

- Created an automatic, robust and highly configurable courier data ingestion pipeline indexing Elasticsearch instances with latest data to serve address geocoding, autocompletion, and validation requests, **improving checkout address validation rate by 1.5x**.
- Performed a full refactor of address geocoding and validation code for checkout, **halving address-related errors**.
- Resolved a dozen SEV-2 bugs, **improving checkout experience for millions of global users**.
- Built an abstraction layer to unify address validation APIs (Melissa, Smarty) for benchmarking internal address validation providers. My work powered Canada benchmarks, enabling address validation rollout and **boosting suggestion click rate by 2x in Canada**.
- Received “**far exceeds expectations**” on impact review, an exceptionally rare rating for interns.

### Ploomber

Aug. 2024 – Dec. 2024

*Software Engineer Intern*

- Streamlined container orchestration for **thousands of users** for frameworks like Voila and Streamlit.
- Contributed heavily to deployment optimizations, **halving the total deployment time**.
- Fixed critical user-facing bugs for application deployment and application configuration, **leading to 1.25x better conversion rates**.
- Implemented graceful termination and exception handling of applications during and after deployment, enabling efficient resource clean up and **reducing AWS costs by 15%**.
- Worked on efficient real-time log sync between application container output and displaying it on the front-end, which included auto-refreshed endless scrolling for memory efficiency.

### Flojoy

Jun. 2023 – Apr. 2024

*Founding Software Engineer*

- **Accelerated \$1M+ seed funding** by delivering impactful product demos and rapid prototypes.
- Developed a visual scripting interface for microcontrollers (Arduino, Raspberry Pi Pico) which are extremely resource-constrained, solving challenges involving bundling the runtime environment, bootstrapping code, and the visual scripting interpreter, **pioneering flow chart programming solutions in this domain**.
- Developed a visual test sequencing system with AI-generation using RAG.

## PROJECTS

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### Compiler | Java

- Compiles a subset of C with OOP features to MIPS assembly.
- Implements optimizations such as graph-coloring register allocation.

## EDUCATION

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### McGill University

Montreal, QC

*Bachelor of Science in Computer Science*

Sept. 2022 – Apr. 2027

- GPA: 4.0 / 4.0
- Relevant Courses: Algorithms, Data Structures, Software Design, Applied Machine Learning, Concurrent Programming, Databases, Operating Systems

## AWARDS

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**Emily Ross Crawford Scholarship** – Awarded to candidates of high academic merit.

**Major Renewable Undergraduate Scholarship** – Merit-based renewable scholarship.

**Dawson Math Challenge Winner** – Mathematics Certificate of Excellence.

## TECHNICAL SKILLS

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**Languages:** Python, Ruby, Typescript, JavaScript, Golang, Java, C, OCaml, SQL

**Database:** Postgres, MongoDB, (in-memory) Redis

**Frameworks:** React Native, NextJS, Ruby on Rails

**Developer Tools and Others:** Docker, GitHub Actions, Elasticsearch, AWS, GraphQL