

Hristo Sandev

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EXPERIENCE

Shopify

May 2025 – Aug. 2025

Software Engineer Intern

- **Technologies & Languages:** Ruby on Rails, Sidekiq, Rake, GraphQL, Redis, MySQL, Ruby
- **Improved checkout address validation rate by 1.6x** by creating an automatic, robust, and highly configurable courier data ingestion pipeline indexing Elasticsearch instances with the latest data to serve address geocoding, autocompletion, and validation requests.
- **Halved address-related errors** by performing a full refactor of address geocoding and validation code for checkout.
- **Resolved a dozen SEV-2 bugs that previously affected millions of global users** through systematic debugging and production-level fixes.
- **Boosted suggestion click rate by 1.8x in Canada** by building an abstraction layer to unify address validation APIs (Melissa, Smarty) for benchmarking internal address validation providers, powering Canada benchmarks and enabling address validation rollout.
- **Received “far exceeds expectations”** on impact review, an exceptionally rare rating for interns.

Ploomber

Aug. 2024 – Dec. 2024

Software Engineer Intern

- **Technologies & Languages:** React, FastAPI, PostgreSQL, Redis, AWS, Python, Typescript
- **Enabled container orchestration at scale for thousands of users** by streamlining deployment of frameworks like Voila and Streamlit.
- **Reduced total deployment time by 53%** by contributing heavily to deployment optimizations.
- **Improved conversion rates by 1.3x** by fixing critical user-facing bugs in application deployment and configuration.
- **Reduced AWS costs by 15%** by implementing graceful termination and exception handling for applications during and after deployment, enabling efficient resource cleanup.
- **Reduced total network payload by 67% and browser memory consumption by 44%** in the log view page by building an efficient real-time log sync system with auto-refreshing endless scroll for application logs.

Flojoy

Jun. 2023 – Apr. 2024

Founding Software Engineer

- **Technologies & Languages:** React, FastAPI, PostgreSQL, Redis, MicroPython, Python, Typescript
- **Accelerated \$1M+ seed funding** by delivering impactful product demos and rapid prototypes.
- **Pioneered flowchart programming solutions in the microcontroller domain** by developing a visual scripting interface for Arduino and Raspberry Pi Pico, tackling challenges such as bundling the runtime environment, bootstrapping code, and implementing a visual scripting interpreter.
- **Enabled AI-assisted test sequencing** by developing a test sequencing system with retrieval-augmented generation (RAG) support.
- **Outperformed pyparsing with 2.6x smaller eval time** by creating a highly configurable numerical expression parser and evaluator in Python tailored for test sequencing needs.

EDUCATION

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, Compiler Design

AWARDS

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.