

# Tristan Potter

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## Summary

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- 6 years of experience in full-stack web development, including: Typescript/ES6 (React), Python (Django), Ruby (Rails), and Golang.
- Proficient in data modelling and various storage technologies including relational (SQL) and document-based.

## Employment History

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### **Shopify Inc.** | *Developer* (Sept 2018 - Present)

- Implemented key pieces of [a system](#) to [transition users to a centralized authentication service](#), enabling new products and providing a unified account experience. (*Rails, React, MySQL*)
- Developed an improvement plan for [Shopify's Customer API](#). Aligned stakeholders and added new functionality, increasing flexibility and reducing support debt. (*GraphQL, Rails, Liquid*)
- Integrated a [platform stability tool](#) to prevent disruptions from high-write [GraphQL API](#) traffic.
- Championed instrumentation across multiple products. Used the new insights to improve performance and squash bugs. (*Datadog, Ruby, Mode Analytics*)

### **Shopify Inc.** | *Developer Intern* (Sept 2016 - Dec 2016, May 2017 - Dec 2017)

- [Prototyped a product](#) that allowed users to build native mobile apps without any technical expertise or coding. (*React, Redux, Rails, Web Sockets, MySQL*)
- Built an application that [enabled merchants to bulk import store data](#), improving the experience for merchants transitioning from other platforms. (*Rails, React, MySQL*)
- Maintained a [real-time analytical engine](#) to provide billions of consumer data points to merchants. (*Golang, HDFS, BoltDB*)
- Implemented a system to remove duplicate data from real-time data streams. (*Golang*)

### **BitCircle Inc** | *Web Developer* (May 2015 - Sept 2015, Jan 2016 - Apr 2016)

- Reduced maintenance and broadened compatibility by designing and building a REST API with [open health-data standards](#). (*ES6, Django*)
- Ensured greater data integrity with new data models. (*CouchDB, Python*)
- Improved on-boarding and reliability with new documentation, code-quality standards, and an automated build system. (*Ansible*)

### **Willet Inc** | *Developer Extrordinaire (Web Developer)* (May 2014 - Sept 2014)

- Grew trust in the product with a new client-facing dashboard with multiple data sources.
- Improved conversion rates with a new algorithm for displaying content to users. (*Python*)

## Current Projects

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- A Rust game engine, first written in Golang, that takes inspiration from Elm.
- Governance management software, meant to make it easier for representatives to be accountable to constituents.

## Community

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### **Imprint Publications** | *Director*

(May 2016 - Apr 2018)

- Reformed Editorial Policy to be accessible and focused on campus objectives.
- Human Resources Committee: conducted performance reviews, developed improvement plans, hired new Executive Editor.
- Finance Committee: prepared departmental budgets, managed accounting staff, and assessed anomalies.

### **University of Waterloo** | *Senator, Governor*

(Oct 2014 - Apr 2017)

- Voted with a student perspective on issues such as international tuition hikes, sustainable investing, and discussions on the performance of Executive Officers.
- Helped oversee the process to select a President of the University.
- Made long-term decisions on budget and strategic direction. Discussed and approved projects in excess of \$40 million.
- Helped introduce new communication requirements for Math students, a snow-day policy, and a fall term reading break.
- Made operational and financial decisions through the Senate Finance Committee and the Undergraduate Student Relations Committee.

### **Math Endowment Fund** | *Director, Chair, Executive Director*

(Mar 2014 - Aug 2017)

- Supported greater educational opportunities for undergraduate math students with a budget of over \$160,000 per term. Projects funded include student-built simulators, a [solar car racing team](#), competitions, and conferences.
- Managed and improved the day-to-day operations of an endowment fund with a principle of over \$6 million.
- Created a new, easier to maintain, website, allowing greater accountability and transparency.

### **Math Society, University of Waterloo** | *Councillor, President, Chair*

(Oct 2013 - Aug 2018)

- Chaired general meetings, boards, councils, and served as ex-officio member of all committees and boards of the society.
- Implemented more efficient budgeting, increased gross and net revenues, and grew attendance at key events. Yearly gross revenues in excess of \$800,000.
- Oversaw the completion of special projects such as the \$58,000 Lounge Renovations.
- Improved transitions and society efficiency with an over-haul of the governing documentation.

## Activities and Interests

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- Studied piano for over ten years, and continue to play.
- Avid biker, runner, and skier.

## Education

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### **University of Waterloo**

(Graduated 2019)

Bachelor of Computer Science, Business Option