Jonathan Gin

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Skills

Programming Languages	TypeScript/JavaScript, Ruby, Python, Golang, Java, HTML/CSS (Proficient) • Lua, Rust, C (Prior Experience)
Technologies and Frameworks	Ruby on Rails, GraphQL, MySQL, Kubernetes, Kafka, Docker, React.js, Node.js, Apache Spark, Flask

Experience

GitHub - Growth
Remote

Software Engineer III — *June 2022 - Present*

- Lead the development and implementation of Growth initiatives resulting in significant increases in user acquisition, retention, and revenue.
- Refactored critical billing paths using a third-party payment provider to enable add-on purchases during checkout, requiring close collaboration with the Billing and Enterprise teams. Improved subscription conversion rate and facilitated a more effective cross-selling approach.
- Enabled the ability to trial GitHub Advanced Security (GHAS) and developed a series of onboarding tasks to guide users through the trial.
- Automatically suggested relevant GitHub Actions workflow suggestions based on repository code analysis, leading to a **31.5% lift in Actions adoption** in repositories among those that engaged with the section.
- Led a collaborative project with the Actions team to create a page listing available runners, leading to an increase in awareness and usage.
- Proactively championed an initiative to add type checking by developing guidelines, writing documentation, and pairing with team members.

Shopify - Caching Platform
Remote

Production Engineer Intern — *Sept 2021 - Apr 2022*

- Developed a generic developer interface for applications to access a distributed in-memory datastore built on top of **KeyDB**.
- Instrumented application monitoring using **OpenTelemetry** and analyze data in **Google BigQuery**.
- Created **Grafana** dashboards to visualize log data and implemented real-time monitoring in **Splunk**.
- Deployed and managed cache clusters across multiple regions using **Google Kubernetes Engine**.
- Implemented automatic hotkey detection and dynamically resolved issue by splitting traffic across multiple clusters.

Shopify - Checkout Orders
Remote

Backend Developer Intern — *Jan 2021 - Aug 2021*

- Developed a large-scale application to power mission critical checkout flows for **over 1 million** shops using **Ruby on Rails** and **GraphQL**.
- Evaluated strategies to migrate legacy code to meet new requirements and achieve feature parity.
- Proposed, developed, and documented new domain objects to enable order editing and draft orders.
- Deployed automated load testing scripts and performed resiliency testing under simulated adverse network conditions.

Shopify - Experiment Platform
Remote

Data Engineer Intern — *May 2020 - Dec 2020*

- Built and launched internal experimentation platform, empowering teams to conduct cross-product **A/B tests**.
- Led a team of 3 to create a tool to calculate and visualize the sample size required to attain a target confidence level using Bayesian statistics.
- Identified and removed a bottleneck during experiment group partitioning, improving worst case performance by **99.7%**.
- Developed data pipelines to process and analyze data using **Python** and **Apache Spark**.
- Authored and documented new performance metrics written in **SQL**.
- Conducted user testing sessions with data scientists to gather feedback and improve product.

Shopify - Shopify Fulfillment Network
Toronto, Canada

Fullstack Developer Intern — *May 2019 - Apr 2020*

- Worked on the Shopify Fulfillment Network prior to launch and supported application post-launch.
- Authored and documented **GraphQL** endpoints and constructed data models to support the application backend.
- Developed and maintained modular frontend components with comprehensive unit tests using **React**, **Jest**, and **Enzyme**.
- Wrote middleware to integrate internal APIs with third-party logistics providers.

Featured Projects

Dev Degree Dashboard | React, GraphQL, Ruby on Rails

- Built a full-stack web application to browse Dev Degree interns' past projects and teams using **Ruby on Rails**, **React**, and **GraphQL**.
- Aggregated data from multiple sources and wrote a background job to programmatically refresh data daily.
- Set up performance monitoring with **Datadog**, as well as error tracking and reporting using **Bugsnag** and **Sentry**.
- Implemented user authentication, continuous integration, and continuous deployment using **Buildkite**.

Education

York University, Lassonde School of Engineering
Toronto, Canada

B.Sc., Hons. Computer Science (Industry Stream - Dev Degree) — *Sep 2018 - Apr 2022*

- Selected as one of ten students to participate in the Shopify Dev Degree program — a four-year work-integrated learning program offered by Shopify and York University that combines work experience on four different teams at Shopify with an accredited Computer Science Degree.