Philip Scott

3B SOFTWARE ENGINEERING

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Skills

Programming	Go, Typescript, Java, C/C++, PHP, SQL, Bash
Web	REST, GraphQL, WebSockets, WebRTC, Node.js, NPM, React, Apollo, HTML5/CSS
Tools	Arch Linux, Git, Docker, AWS (EC2, Lambda, RDS, S3), Travis CI, Heroku, NGINX, Redis

Work Experience

Lumina
San Francisco, CA

SOFTWARE ENGINEERING INTERN — *May. 2019 - Aug. 2019*

- Developed a **cryptocurrency trade execution engine** that supports Binance, Gemini, CoinbasePro, Bitstamp, and Kraken
- **Decreased** portfolio timeline page **load times by 80%** by caching expensive SQL query results in Redis
- Added transaction retrieval and **auto-reconciliation support** for Tezos using TzScan, a Tezos Block Explorer API
- Fixed **critical production bugs** causing audit discrepancies for exchanges such as Binance, ItBit, Bitfinex, and Bittrex

Adknown
Guelph, ON

FULL-STACK DEVELOPER INTERN — *Sep. 2018 - Dec. 2018*

- Developed an **Athena query cost monitoring system** by parsing **AWS Cloudtrail** logs and uploading data to Scalyr
- **Reverse-engineered Facebook Pages** to create a scraper that collects and parses advertisement data
- Created a Proof of Concept for a **serverless** PHP 7 application on AWS Lambda using **AWS SAM** and **AWS Layers**

Yahoo
Sunnyvale, CA

SOFTWARE ENGINEERING INTERN — *Jan. 2018 - Apr. 2018*

- Created a HyperContainer **daemon monitoring system** for the company-wide CI/CD platform using **Go** and **Prometheus**
- Integrated the monitoring system with the existing **OpsGenie** alerting system and **Grafana** dashboard
- Collaborated with the platforms team in an **agile** environment; attended daily stand-ups, retrospectives, and postmortems

AGF Investments Inc.
Toronto, ON

JUNIOR WEB DEVELOPER — *May. 2017 - Aug. 2017*

- Managed a **thousand-page corporate website** using Cascade CMS with little supervision
- Developed dynamic server-side web pages using HTML, CSS, JavaScript, XPath and Apache Velocity

Projects

Enclave

DATA VAULT ABSTRACTION LAYER FOR KBFS — *Sept. 2019*

- **Placed second at CitizenHacks** and won the **Keybase $1000 USD sponsorship prize** for best Keybase bot integration
- Abstracted the Keybase Filesystem by creating a **data retrieval/storage protocol** that allows users to control their data
- Created an NPM package (enclavejs), a Keybase Bot, and a demo app comprised of a React client and an Express REST API

NPM Packages

OPEN SOURCE CONTRIBUTOR AND MAINTAINER — *Aug. 2017 - Present*

- Implemented, published, and currently maintain **several packages on NPM**, striving for 100% code coverage and semver
  - simple-thumbnail: A thumbnail generator library that utilizes **FFmpeg** as a child-process
  - fastnoisejs: **N-API bindings** for the FastNoise C++ library
  - tumult: A JavaScript noise library; implemented **Perlin** and **Simplex** noise and **Fractal Brownian motion**

Education

University of Waterloo
Waterloo, ON

BACHELOR OF SOFTWARE ENGINEERING (BSE) — *Sep. 2016 - Exp. Apr. 2021*