

# Philip Scott

3A SOFTWARE ENGINEERING · FULL STACK DEVELOPER

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## Skills

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**Programming** JavaScript (ES2017), Golang, PHP, SQL, Crystal, Bash, C/C++, Scala  
**Web** Node.js, NPM, Express, Hapi.js, Socket.io, Webpack, Mocha, jQuery, HTML5/CSS, SASS  
**Tools** Git, Jira, Travis CI, Heroku, AWS (EC2, Lambda, RDS, S3, Athena etc.), NGINX, Redis, Docker, Arch Linux

## Work Experience

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### Adknown

Guelph, ON

SOFTWARE ENGINEERING INTERN

Sep. 2018 - Dec. 2018

- Developed an **Athena** query cost monitoring system by parsing **Cloudtrail** logs with **Lambda** and uploading data to **Scalr**
- Took ownership of internal reporting web tool built with PHP 5.6, MySQL and jQuery; refactored code-base from procedural to OOP, and added Slack and Grafana integration
- **Reverse-engineered Facebook Pages** to create a scraper that collects and parses advertisement data; stores data in **S3**
- Created a Proof of Concept for a serverless PHP 7 application on AWS Lambda using **AWS SAM** and **AWS Layers**

### Oath Inc.

Sunnyvale, CA

SOFTWARE ENGINEERING INTERN

Jan. 2018 - Apr. 2018

- Implemented HyperContainer daemon monitoring and alerting system for **company-wide** CI/CD tool using **Golang**, **Prometheus**, **Grafana**, and **OpsGenie**
- Refactored REST API, increasing **Mocha/Chai** coverage to 100%; upgraded Node.js 6 to **Node 8.js** & Hapi.js 16 to **Hapi 17.js**
- Added Slack notifications for build status updates using the Slack Webhook API
- Collaborated with platforms team in an **Agile** environment, attending 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 a dynamic server-side web pages using HTML, CSS, JavaScript, XPath and Apache Velocity

## Projects

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### Glitter

GLSL DEMOS IN 280 CHARACTERS

Jan. 2019 - Present

- Implemented a RESTful JSON API for storing user and post information in **PostgreSQL** utilizing **Kemal** for routing
- Developed a highly modular and minimalist UI using **Hyperapp** and **Postcss-modules**
- Created developer **docker-compose.yml** file that provides automatic compilation and client hot module replacement

### plisten

DNS SNIFFER LIBRARY

Dec. 2018 - Jan. 2019

- Implemented a simple API for mapping wildcard expressions to callback handlers through **Google's gopacket** library
- Currently researching **TUN/TAP interfaces** to mock network interfaces for unit tests running in **Travis CI** environment

## Activities

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### Open Source Contributor and Maintainer

NPM OPEN SOURCE PACKAGES (SCOTTYFILLUPS)

Aug. 2017 - Present

- Implemented, published, and maintain **several (16) 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** to the FastNoise C++ library
  - tumult: A JavaScript noise library; implemented **Perlin** and **Simplex** noise and **Fractal Brownian motion**

## Education

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### University of Waterloo

Waterloo, ON

BACHELOR OF SOFTWARE ENGINEERING (BSE)

Sep. 2016 - Exp. Apr. 2021