

Philip Scott

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Experience

Oath Inc. Software Engineering Intern | Core Platforms

Jan 2018 – Apr 2018

Oath Inc. is an umbrella company for Yahoo! & AOL; the Core Platforms team works on Screwdriver, an open-source Node.js CI/CD solution

- Developed in-house HyperContainer **daemon monitoring system** using Golang, Docker, and Kubernetes Cron Jobs
 - Metrics pushed to Prometheus Pushgateway and graphed using Grafana; alerts sent via email and OpsGenie
- 🛠️ Refactored several repositories to use **async/await** and hapi v17, increasing **coverage to 100%**
- 🛠️ Rewrote open-source hapi.js Amazon S3 cache memory library to **fix blocking issue** during HIP sprint
- 🛠️ Added **Slack notifications** for build status updates using Slack API **webhooks**

AGF Investments Inc. Junior Web Developer

May 2017 – Aug 2017

- Successfully maintained corporate website with over **one thousand pages** with minimal supervision
- Developed **dynamic server-side** web pages; created intuitive graphical-user interfaces that outputted XML
 - Parsed XML using XPath; used Apache Velocity template engine to inject data into custom HTML template
- Spearheaded meetings with other departments discussing page specifications, such as studio and compliance
- Explored new technologies such as ChartJS; provided **stunning Proof of Concepts** with objective insight as to whether it would be beneficial to use

Windsor Manufacturing Web Consultant

Jun 2016 – Jul 2016

- Managed and assisted hired Upwork developer tasked with developing business website
- Communicated specifications to developer with clarity and met deadlines

Projects

🛠️ Boop Web-based Multiplayer “Bumper Balls” Game

Jan 2018

- Player movement **controlled with phone** using gyronorm.js; gyroscope data sent to Node.js server using **Socket.io**
- Player positions computed using the **Cannon.js** physics engine; scene rendered using **Three.js**
- Created in **twenty-four hours** for Oath Hackday

🛠️ Crumbs Transform Scrum Board image into a JSON payload

Apr 2018

- Developed **Flask API** that analysed scrum board images using **Microsoft Azure** for **OCR** (optical character recognition)
- Used Pillow, a fork of the **Python Image Library**, to sanitize image input and classify characters into headers and items
- Won **1st place** in twenty-four-hour Core Platforms Hackday, **awarded \$50** Amazon Gift card

🛠️ 4webm Generate playlist of thread videos from an image board URL

Jan 2018 – Present

- Average of **70 daily users**, with an average session duration of **4 minutes**; highly appraised by the image-board community
- Manually set up **SSL/TLS** certificate using **Let's Encrypt**

🛠️ FastNoiseJS N-API bindings for FastNoise, a Fast C++ Noise Library

Jan 2018 – Present

- Ported C++ library to Node.js using the **N-API**; provides **10** unique noise functions. Includes unit and functional tests.

More projects can be found on my website 🛠️

Toolkit

Proficient:	JavaScript (ES2017), Node.js (8+), Golang, Redis, Heroku, HTML5, CSS3
Familiar:	Git, Agile, C/C++, Python, Scala, PHP, Bash, GLSL, MongoDB, PostgreSQL
Frameworks & Tools:	Ember.js, Express, Hapi, Mocha, Webpack, jQuery, Flask, Docker, Travis CI

Education

University of Waterloo Software Engineering, Co-op Class of 2021

- Software Engineering representative for the UW Mathematics Society Council