

# Philip Scott

University of Waterloo, 2A Software Engineering

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**Self-taught** full-stack web developer, with numerous projects demonstrating expertise.

**Passionate** about learning; loves pushing the limits of new web technologies and exploring its applications.

**Projects and people first**; enjoys creating things people will enjoy and use. Technologies should be a means, not an end.

## Skills

**Languages:** JavaScript (ES6), PHP, MySQL, C/C++, Scala, GLSL, HTML, CSS, XML, Markdown, Bash

**Technologies:** Node.js, Express, Handlebars, Redis, AngularJS, Heroku, jQuery, Bootstrap, MongoDB, Mongoose, XPath, Apache

**Tools:** Git, NPM/Yarn, Webpack 3, Browserify, Babel, Bubl , Sass

**Concepts:** REST, OOP, AJAX, MVC, SQL injection, XSS, Salted Password Hashing, RegExps

## Education

**University of Waterloo**  
Candidate for Bachelor of Software Engineering

Class of 2021

## Awards

**Lieutenant Governor's Community Volunteer Awards for Students**  
Government of Ontario 2016

**President's Scholarship of Distinction**  
University of Waterloo 2016

## Experience

### AGF Investments Inc. 🌐

#### Junior Web Developer

May 2017 – Aug 2017

- Successfully maintained public corporate website with over one thousand pages using the Cascade CMS
- Developed client-facing pages, built page templates using HTML/CSS and created an interface in Cascade for content management
- Interface stored data as XML; used the Velocity template engine and XPath to parse the data and insert into template
- Explored new technologies such as ChartJS, and provided stunning proof of concepts with objective insight as to whether it would be beneficial to use
- Spearheaded meetings with other departments discussing page specifications, such as studio and compliance

### Windsor Manufacturing 🌐

#### Web Consultant

Jun 2016 – Jul 2016

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

## Projects

### Strife 🌐

- Node.js chat application that generates room invitation URLs, similar to Discord
- Uses Socket.io for bi-directional communication and AngularJS for UI
- Chat history sanitized to prevent XSS attacks and stored using Redis
- Uses Mashape and Google RESTful APIs for reCAPTCHA and quote of the day

### Vizplex 🌐

- Multivariable function visualization library that comes with Simplex3
- Allows developers to draw beautiful animated noise with WebGL
- Capable of animating noise, full screen, at 30FPS+ on an ordinary laptop
- Built with GLSL and JavaScript

### Tumult 🌐

- Modular JavaScript noise library utilizing ES6 modules.
- Currently supports Perlin[1-4], Simplex[1-2] and Fractal noise
- Built with ES6 classes and transpiled using Bubl , a transpiler similar to Babel
- Generalized Perlin noise to the Nth dimension, see PerlinN

## Volunteering

### Peterborough Public Library

#### Computer Help Desk Volunteer

Nov 2012 – Apr 2016

- Helped library patrons with Useful Desktop, LibreOffice, email, Wi-Fi networks, printing documents, and questions
- **Received a letter of recommendation** for outstanding professionalism and technical prowess
- Received Lieutenant Governor's Community Volunteer Award for **300+ hours of volunteer work**