

# Graham James Campbell

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**Introduction** I have a huge involvement in open source software, am self-motivated, and aspire to pursue a career in the computer science field, after having completed a degree in Computer Science and Mathematics. I am the most active GitHub user according to <https://git.io/top>, as of 19<sup>th</sup> June 2016, and I was also shortlisted for Young Developer of the Year in the international [Net Awards 2015](#).

## Education **BSc Computer Science and Mathematics**

[University of York](#) (2015 – 2019)

I am a full-time student at the University of York, studying for a BSc in Computer Science and Mathematics (with a year in industry). On entry, I was awarded one of three department scholarships for academic excellence. My first-year mark was a strong **1<sup>st</sup>**, and my second-year studies include group theory, number theory, linear algebra, compilers and semantics, principles of programming languages, databases, artificial intelligence, and computation theory.

### School Education

[Durham School](#) (2010 – 2015)

- A-Levels:
- A2-Level Mathematics – Grade **A\***
  - A2-Level Further Mathematics – Grade **A\***
  - A2-Level Physics – Grade **A\***
  - AS-Level Chemistry – Grade **A**
- ABRSM:
- Grade 8 Clarinet – **Distinction**
  - Grade 8 Piano – **Pass**

## Jobs **Software Technologies Intern (Full-time)**

[Cambridge Consultants Ltd](#) (2017 – 2018)

I will start a one-year placement in the ICE division of Cambridge Consultants in Summer 2017, between the 2<sup>nd</sup> and 3<sup>rd</sup> years of my degree at York.

## Software Engineering Intern (Full-time)

[Bugsnap UK Limited](#) (Summer 2016)

Placed in their Bath office for 12 weeks, I initially spent my time modernizing their open source PHP notifier. I later went on to rewrite both their existing Laravel and Silex notifiers, and introduced a new Symfony notifier, as well as contributing to various other areas both internal to Bugsnap (mainly CoffeeScript), and within their other notifiers (e.g. Python, Java, Go). I also had the pleasure of representing the company at [Laracon US](#) and gave a micro-talk there in front of 500 people.

## Founder and Lead Developer (Part-time)

[Alt Three Services Limited](#) (2015 – Current)

I am the lead developer, and project founder, in a team of 3 people working on [StyleCI](#), a hosted PHP code style continuous integration service. This involves designing and writing applications and libraries from scratch, and continual work implementing new features, and fixing bugs. StyleCI's analysis platform is largely powered by [PHP\\_CS\\_Fixer](#), for which I am an active contributor; my most noteworthy contribution is the addition of numerous docblock fixers in [#887](#).

I work with PHP, PHPUnit, Laravel, JavaScript, HTML, PostgreSQL, Redis, Git, and AWS, and I am responsible for all our sysadmin, keeping our services online. We follow agile development principles with continuous delivery. Additionally, Alt Three has its own open source commitment and I work on its OSS [packages](#) including its flagship open source product, [Cachet](#), an open source status page.

## Open Source **Laravel**

[Laravel](#) is one of the most popular PHP frameworks today. I am proud to have been contributing to Laravel for three years, and am the highest contributor after the creator, Taylor Otwell. My contributions include adding new features, fixing bugs, security issues, and reviewing PRs and issues. Laravel has around 17 million downloads through [Composer](#), and is the most starred PHP repo on GitHub.

I currently maintain around 30 Laravel packages, 15 of which are found on my [personal GitHub account](#), and others shared in GitHub organizations including, [AltThree](#), [BootstrapCMS](#), [CachetHQ](#), [StyleCI](#), and [laravel-auto-presenter](#). The combined number of downloads of my Laravel packages is in excess of 2 million.

## Other Projects

I am the current maintainer of [Factory Muffin](#) (I was previously co-maintainer alongside Scott Robertson), and have spent a lot of time writing documentation as well as rewriting/restructuring the code twice for 2.0 and 3.0 releases. Factory Muffin is part of the [League of Extraordinary Packages](#).

I have taken over from Michael Dowling (the creator of [Guzzle](#)) as project lead on [Class Preloader](#), now with 15 million downloads. My initial contributions to this repo include a code clean-up, upgrading to the new PHP Parser library, and adding a test suite. I continue to fix bugs and make improvements to this library.

I maintain some other projects, besides these, and have contributed to hundreds of projects over the past few years. Some of my projects are purely academic such as my [Matrices library](#), and [Battleships implementation](#).

## Skills

I am experienced with advanced software design patterns, and dependency management, as used in my open source activity, and in my work. I am proficient in PHP, and have good knowledge of JavaScript, HTML, Haskell, Python, and Java. I can use the version control "git" with knowledge of advanced features.

I am familiar with services such as AWS S3 and SES, and have used Redis, MySQL, PostgreSQL, and Beanstalk before in production applications. I am very conscious of web security, and have identified and fixed security flaws in projects, including, for example, timing attacks on CSRF headers in Laravel. I also have good familiarity with the HTTP spec, having designed HTTP APIs before. I understand headers such as the accept header, and content type negotiation.

## Interests

Since picking up my first clarinet at the age of 8, I have developed a determined enthusiasm for music, and while at school, apart from working diligently through repertoire and the grades, I performed as a soloist in my school's chapel and Durham Cathedral. I enjoyed playing in the Dunelm Wind Quintet, the school orchestra, and leading the clarinet group. I am currently a member of the University Choir, and continue to play the clarinet for my own pleasure.

I am also a member of the University Computer Science, Maths, and Music societies, have achieved the York Award stage one through the University, and volunteer through the #DigitalYork scheme, helping teach children python and algorithmic thinking. I enjoy live comedy, and the occasional game of tennis or golf, and I have recently become a member of the PHP Leeds Meetup group.