

# Kelvin Zhang

## Student at Whitgift School, Croydon

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## PROFILE

I am an aspiring software engineer with a passion for web development (especially using PHP/Laravel). With a strong work ethic and desire to gain as much experience as possible with software development, I have accumulated a large amount of experience in recent years from working on projects both at home and abroad. In addition to this, my interests include web application security and server management, where I have attained several achievements.

## WORK EXPERIENCE

### Poniverse — (<https://poniverse.net/>)

Web Developer (Volunteer)  
JULY 14 - SEPTEMBER 16

Poniverse is an online super-community which runs a network of websites.

- built an audit trail for the OAuth 2.0 provider responsible for authenticating users on Poniverse websites to upkeep the high standards of security required in the platform
- upgraded the PHP/Laravel codebase for an open source music hosting site, Pony.fm (<https://pony.fm/>) to enable long-term support from the framework
- implemented a file caching system for Pony.fm in order to save hundreds of gigabytes of disk space by caching music formats which are often downloaded and encoding others on demand
- implemented a versioning system for Pony.fm to allow artists to upload new versions of their tracks and revert to older versions

### Artificial Labs, London — (<https://artificial.io/>)

Web Developer (Intern)  
JUNE 15 - AUGUST 15

Artificial Labs is a London-based web development company.

- upgraded and refactored an entire PHP/Laravel codebase to improve code readability and future compatibility with packages
- implemented major, core features (including authentication and the administration panel) in a product which will be used by multinational insurance companies
- implemented functionality to parse and synchronise large amounts of unsorted live data, forming part of the core functionality of a large application

## EDUCATION

### Whitgift School, Croydon

Secondary School  
SEPTEMBER 09 - JULY 17

- Currently taking A2 levels in Computer Science, Maths, Further Maths and Physics
- AAAA at AS Levels (Computer Science, Maths, Further Maths and Physics)
- 10 A\*s and 1 A at GCSE; A in FSMQ (Additional Maths)
- Awarded the Arkwright Engineering Scholarship in September 2015, a highly selective scholarship which identifies and nurtures future leaders in engineering. My scholarship is sponsored by tlmNEXUS, a defence sector software company, who have provided me with mentorship and funding to advance my interest in software engineering.
- Runs a student-led society, CyberSoc, educating students in cybersecurity and programming. Responsible for running lunchtime sessions, mentoring students and liaising with speakers.

## PROJECTS

### Timetable Pusher - *October 2015*

An app which allows Pebble smartwatch wearers to sync their school class schedules with their Timeline (a calendar). Consists of a Pebble (C SDK) app and PHP/Laravel backend API.

### Balances for Whitgift School - *February 2015*

An Android app for Whitgift students which allows users to check their catering balances, view recent purchases and be notified when their balances are low. Consists of an app developed in Java/Android SDK and a backend API developed in PHP/Laravel.

## TECHNICAL EXPERTISE

	Experienced	Comfortable With	Exposed To
Languages + Frameworks	PHP (inc. Laravel); HTML + CSS; JavaScript; Bootstrap; VB.NET	Java (inc. Android SDK); Python; SASS/SCSS; JQuery; Ionic 2 (Angular 2)	AngularJS; React; Flask; C++; Haskell; Prolog
Software and Tools	WHMCS + SolusVM + cPanel; Git; Linux CLI (inc. OpenVZ); JetBrains IDEs; Vagrant	Gulp (inc. Laravel Elixir)	Docker; Travis CI; New Relic

## ACHIEVEMENTS AND SCHOLARSHIPS

### European Cyber Security Challenge Competitor - *November 2016*

Cyber security competition involving attack/defence scenarios and capture the flag challenges. Chosen to be part of the UK's team after competing in national rounds held by Cyber Security Challenge UK. Worked with web application vulnerabilities and cryptography challenges.

### Cambridge Bio-Hackathon (1<sup>st</sup> Place) - *June 2016*

Winning the first place prize at the Cambridge Bio-Hackathon, a five day hackathon with a synthetic biology focus, our team of six built a platform which makes cloud labs more accessible through an intuitive interface and integration with cloud laboratories.

### Corpus Computer Science Essay Prize (Runner-up) - *March 2016*

Runner-up in the 2016 Corpus (Cambridge) Computer Science essay prize for an essay on the possibilities of using formal logic to store legislation.

### Leangap Class of 2015 - *Summer 2015*

Selective summer entrepreneurship programme for aspiring tech entrepreneurs. Built the minimum viable product of a startup company in six weeks.

### Facebook Bug Bounty - *November 2012*

One of the youngest recipients at age thirteen. Received acknowledgement and \$2000 USD payout for finding vulnerability exposing soft-deleted data in the Pages app.

## ACTIVITIES AND INTERESTS

- As a regular hackathon attendee, I have led teams with zero/little programming experience to attain prizes and have used hackathons to improve my project management skills and discover new technologies. I have also volunteered at hackathons and am looking to volunteer at a school coding club in the future.
- I am a keen pianist and have been playing the piano since the age of seven. I have received a Distinction at ABRSM Grade 7 and am continuously learning to play new pieces.

## REFERENCES

Mr Johnny Bridges (Director)  
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