

Irvin Lim Wei Quan

B.Comp. in Computer Science (Year 3), National University of Singapore

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SUMMARY

I am a software engineer with 5 years of freelance web dev experience. I first started out as a PHP/WordPress freelancer, where I moved on to JavaScript frontend development, before finding my (current) passion in backend development and DevOps.

I am passionate about scalable engineering, be it through infrastructure or code. I enjoy the process of optimising and automating for better performance and developer efficiency.

On the side, I also like to dabble in CTFs and bug bounty programs, learning ethical hacking. I also enjoy contributing back to open source on GitHub whenever possible.

SKILLS

Programming Languages

Proficient in Java, JavaScript, PHP; Working knowledge of Bash, C, Go, Lua, Python, Ruby, Swift.

Frontend Web

Proficient in React/Redux, Vue.js, Bootstrap, Sass. Experienced in building SPAs, PWAs and responsive web applications.

Backend Web

Proficient in Node.js, Laravel, WordPress. Experienced in building REST APIs and microservices.

Web Systems Architecture

Proficient in AWS, Docker, Nginx, Apache, OpenResty, ModSecurity. Experienced in working with HTTP, reverse proxies, site reliability and web application firewalls (WAFs).

Databases

Proficient in MySQL, with working knowledge of PostgreSQL, Redis and Elasticsearch. Experienced in log collection and data visualisation.

RELEVANT EXPERIENCE

May 2017 –
Nov 2017

Banff Cyber Technologies

Associate Web Security Developer (Intern)

- Oversaw the development of a multi-tenant WAF SaaS project
- Designed the architecture for a load balanced WAF proxy service on AWS, balancing between operational costs and performance/latency
- Implemented immutable server architecture, allowing the WAF service to scale up quickly within 90 seconds during traffic surges
- Developed log collection pipelines for aggregating WAF incident logs, viewable within 60 seconds of any incident occurring worldwide
- Developed a REST API and UI for customers to manage every WAF instance deployed around the world, developed in Laravel and Vue.js
- Developed a framework for profiling 4 different commercial WAFs against almost 250 automated penetration tests
- Redesigned the product website for improved customer engagement

Dec 2016 –
Apr 2017

Geektronics Solutions

Freelance Web Developer

- Developed the backend system for a point-of-sales (POS), with an administrative user interface (React) and REST API (Node.js)
- Designed over 60 API endpoints for both web and POS interfaces
- Developed sales report generators in PDF and CSV formats

Mar 2015 –
Jul 2015

E8 Pte Ltd

Freelance Web Developer

- Developed a web-based document management system using PHP
- Implemented several unique features, including many-to-many document categorisation, Unix-like discretionary access control, version control, metadata tagging/aggregation and LDAP integration

Jan 2013 –
Apr 2013

Tickled Media

Freelance WordPress Developer

- Provided ad-hoc technical support, implemented features, performed page load optimisation and SEO for two WordPress websites

EDUCATION

Aug 2015 –
Present

National University of Singapore

Bachelor of Computing (Honours) in Computer Science

Concurrent Degree Programme with Brown University in Computer Science

Cumulative Average Point (CAP): 4.67 (out of 5)

AWARDS AND SCHOLARSHIPS

May 2017

Finalist - CrossCTF 2017

SMU Whitehat Society / NUS Greyhats

Feb 2017

2nd Place - IDEa\$ Competition 2017

Engineering Design and Innovation Centre, Faculty of Engineering, NUS

Aug 2015

National Infocomm Scholarship

Info-communications Media Development Authority of Singapore (IMDA)