

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 development experience. My interests are centred around building and securing the web, in terms of responsive UIs, REST APIs, site reliability, DevOps and web application security.

I find joy in perfecting the little details in what I do, but also seek to deliver value and make an impact through my work.

Some of the things I am exploring currently are AWS, CI/CD, data engineering using ELK, and ethical hacking during CTFs.

SKILLS

Programming Languages

Proficient in Java, JavaScript, PHP; Working knowledge of Bash, C, Go, Lua, Python, Ruby, Swift 3.

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 microservice architecture.

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 with Fluentd and data visualisation.

RELEVANT EXPERIENCE

- May 2017 – Nov 2017 **Banff Cyber Technologies**
Associate Web Security Developer (Internship)
- Built a multi-tenant configurable HTTP WAF proxy to stop OWASP Top 10 and blacklisted IPs using Docker, OpenResty and ModSecurity
 - Designed the architecture for a CDN/WAF stack on top of AWS
 - Implemented immutable servers using a combination of Bash scripts and AWS Lambda, to allow for auto scaling and load balancing
 - Developed a REST API and UI for managing the WAF, management of rules, searching incident logs and viewing threat metrics aggregation
 - Built several log collection pipelines for filtering, transforming and aggregating WAF incident logs into S3, Elasticsearch and MySQL
 - Developed a framework for performing black-box unit tests on cloud-based WAFs using Docker and Node.js
 - Redesigned the WebOrion™ marketing website, using WordPress
- Dec 2016 – Apr 2017 **Geektronics Solutions**
Freelance Web Developer
- Developed a point-of-sales (POS) system with an administrative user interface using React and REST API using Node.js
 - Designed over 60 REST API endpoints for the web and POS interfaces
 - Developed generation of sales reports in PDF and CSV using PHP
- Mar 2015 – Jul 2015 **E8 Pte Ltd**
Freelance Web Developer
- Developed a web-based document management system using PHP
 - Implemented features such as 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): 4.66 (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)