

Irvin Lim Wei Quan

Computer Science (Year 3), National University of Singapore

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SUMMARY

A software engineer with a strong background in frontend web development, while dabbling in REST APIs, Docker, and Linux on the side. My preferred language is JavaScript.

Currently looking for local and overseas internship opportunities. Interests include DevOps automation, learning ethical hacking as well as playing jazz on the electric bass.

SKILLS

Programming Languages

Bash, C, Java, JavaScript (ES7), Lua, PHP, Python, Swift 3

Frontend Web

React, Redux, Vue.js, Webpack, Bootstrap, Foundation, Sass, jQuery, Grunt, Gulp

Backend Web

Node.js, Koa, Bookshelf, Knex

Web Frameworks

WordPress, Meteor, Laravel

DevOps/Sysadmin

Linux, AWS, Docker, nginx, Apache httpd, OpenResty, ModSecurity

Databases

MySQL, PostgreSQL, MongoDB, Redis

UI/UX and Design

Adobe Photoshop, Sketch, Material Design

EXPERIENCE

May 2017 – Present **Banff Cyber Technologies Pte Ltd**
Associate Web Security Developer (Intern)

- Developed a complete framework in Node.js, PHP and Docker to run penetration tests and false positive tests against web application firewalls (WAFs) on various testbeds like WordPress and OpenCart
- Designed almost 250 automated WAF penetration tests in JSON
- Implemented a multi-tenant WAF proxy using a combination of Docker, OpenResty, Lua and AWS
- Helped to redesign and implement the WAF proxy architecture for high availability and load balancing using various AWS services
- Worked on the Laravel API and Vue.js user interface for a user portal
- Maintained and hardened the security of a WordPress site

Dec 2016 – Apr 2017 **Geektronics Solutions Pte Ltd**
Web Developer (React, JavaScript, PHP)

- Developed a point-of-sales system, including an administrative interface using React and a JavaScript REST API using Knex
- Designed over 60 REST API endpoints for web and POS interfaces
- Built PDF and CSV report generators for POS transactions in PHP

Mar 2015 – Jul 2015 **E8 Pte Ltd**
Web Developer (PHP, Foundation)

- Developed a document management system used internally by the company, with features such as many-to-many document categorisation, fine-grained access control, version control, metadata tagging, user management and LDAP integration

Jan 2013 – Apr 2013 **Tickled Media Pte Ltd**
WordPress Developer

- Worked on 2 WordPress sites, providing ad-hoc support, implementing features, page load optimisation and SEO

EDUCATION

Aug 2015 – Present **National University of Singapore**
Bachelor of Computing (Honours) in Computer Science
Concurrent Degree Programme with Brown University in Computer Science

- Current CAP: 4.66 (out of 5)
- Expected graduation date: May 2020

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)