Hanzhang Zeng
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CAREER PROFILE

Software Engineer @ Freelancer Pty. Ltd.   **2018 - Current**

- Web application developer at Escrow.com

Bachelor of Engineering (Computer Engineering)   **2014 - 2017**

- Undertaken 2017 Internship at Microsoft in China
- Undertaken 2016 Taste of Research Summer Scholar Program at Data61
- Undertaken 2015 Software Summer Camp at NICTA

EDUCATION

Bachelor of Engineering (Computer Engineering)   **2014 – 2017**
University of New South Wales

- Graduated with First Class Honours

Taste of Research Summer Scholarship   **2015 – 2016**

The program was set-up by UNSW Engineering to allow undergraduate students to spend a summer working with a research group

UNSW Dean's Honours List   **2015 & 2016**

The Dean's Honours List recognises high achieving undergraduate students in the UNSW Faculty of Engineering

EXPERIENCE

Intern at Microsoft (China)   **NOV 2016 – FEB 2017**

Mooncake Anti-DDoS

- Developed a web application for monitoring real time incidents with ASP.NET
- Developed services for external Anti-DDoS automation
- Implemented views with Kendo UI, jQuery, Ajax technique and Bootstrap

Taste of Research Summer Scholar at Data61   **NOV 2015 – FEB 2016**

CAmkES on Linux

- Ported CAmkES platform and build system from seL4 to Linux
- Modified CAmkES build system and dependencies in Linux
- Familiarised with POSIX threads and IPC facilities in Linux

THESIS PROJECT

seL4 Based IoT Device   **MAR 2017 – NOV 2017**

- Researching IoT security flaws from component architecture perspectives
- Analysing possible threats on a smart-frame device with STRIDE methods
- Rearchitecting the system on seL4 with fine-grained protections and isolations

COURSEWORK

Circle Detection Accelerator   **MAR 2017 – JUN 2017**

- Researching Hough Circle Transform and hardware PS-PL AXI interaction
- Analysing hotspots in algorithm implementation and hardware optimization
- Implementing an accelerator on ZedBoard FPGA using Vivado Suite

Advanced Operating System   **JUL 2016 – NOV 2016**

- Developed a simple operating system on top of seL4 microkernel
- Implemented a timer driver, a file system, a pager and a process manager
- Demonstrated strong cooperation and communication skills

RELATED SKILLS

C/C++   C#   Python   Javascript(ES6)   SQL

ASP.NET   ADO.NET   React   Redux   Flask   SQLServer   MySQL