Oliver Scott
Computer Scientist
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Working as a **systems engineer**, **full stack developer**, and **penetration tester** I gained experience applying software solutions to real-world problems. Recently, I have had the opportunity to explore very different and exciting challenges as a **kernel engineer**. Some notable projects I have undertaken include:

- Building an **operating system** from the ground up written in **C** and **Assembly**
- Building a **compiler** for the **VC** language - a derivative of **C**, written in **Java**
- Porting a **Synopsis ethernet driver** from **U-boot** and **Linux** source to the **seL4 CAmkES** framework on the **Nvidia Jetson Tx2** development board

Additionally, I possess strong **time management** and **communication** skills, which help me to thrive in any team-based environment. I want to work in a team that cares about making a positive impact and has fun doing it.

Experience - Software engineering

Trustworthy Systems, CSIRO, Sydney - *Kernel Engineer*
November 2018 -Present

- Systems engineering for the **seL4 microkernel** team including **drivers**, a driver framework, **vmm development** and **kernel tooling**.

Twopi Code, Sydney - *Full Stack Developer*
January 2018 - November 2018

- Working on web applications using **Flask**, **Python**, **React**, **Javascript**, **HTML**, **CSS**, and **Alchemy**.

Hacklabs, Sydney - *Penetration Tester, Intern*
November 2017 - February 2018

- Leading external penetration tests on client infrastructure and writing reports based on results found. Learned to use a variety of tools such as **Nmap**, **Burp Suite**, and **SQLmap**.

Cog Systems - *Systems Engineer, Intern*
January 2017 - April 2017

- Testing functionality of software built for HTC-A9 smartphones and improving **CMake** build system.

Regency Jewellers, Orange - *freelance full stack developer*
December 2014 - February 2015

- Designed and implemented a web application that functioned as an internal booking system.

Experience - Teaching

University of NSW, Sydney - *Tutor*
July 2015 - Present
- Tutoring undergraduate computer science subjects which includes preparing and delivering content to around 30 students, marking assignments and doing lab demonstrations. Privately tutoring computer science and math subjects to indigenous students through the Nura Gili initiative.
    - COMP1521: Computer System Fundamentals   (S3 2019)
    - MATH1081: Discrete Mathematics (Nura Gili)   (S2 2017)
    - COMP1521: Computer System Fundamentals (Nura Gili)   (S2 2017)
    - COMP1521: Computer System Fundamentals   (S2 2017)
    - COMP2911: Engineering Design (Nura Gili)   (S1 2017)
    - COMP3231: Operating Systems (Nura Gili)   (S1 2017)
    - COMP2121: Microprocessors and Interfacing   (S1 2017)
    - COMP2121: Microprocessors and Interfacing   (S2 2016)
    - COMP2121: Microprocessors and Interfacing   (S1 2016)
    - COMP1917: Computing 1   (S2 2015)

Number Works and Words, Sydney - *Tutor*
June 2014 - July 2015
- Tutored final year high school students studying three and four unit mathematics.

Education

University of New South Wales - *BS (Computer Science)/BS (Mathematics) (in progress)*
Certificate 3 Networking TAFE 2014   [Northern Beaches Campus]
HSC TAFE 2013   [Northern Beaches Campus]

Leadership

University of New South Wales, Sydney - *2015 - 2016*
- Student Representative

Interests

Outside of Computer Science and Mathematics I am passionate about rock climbing, surfing, music, cooking and yoga.