

# David Neil Hack

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## Education and Qualifications

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### **Victoria University – BE (Hons) Software Engineering** **2016 – 2020**

**2017** - GPA of **9.0/9.0**, A+ in all courses SO FAR (4.0/4.0 US GPA).

#### **2016**

- GPA of **9.0/9.0**, A+ in all courses (4.0/4.0 US GPA).
- Faculty of Engineering Deans Merit List.
- Excellence Scholarship.

### **Onslow College - NZQA** **2013 – 2015**

#### **2015** (Level 3)

- Achieved with excellence (**70E, 29M, 4A**).
- Estimated ATAR of **99.85<sup>1</sup>**.
- Subjects: Digital Tech – Computer Science & Media, Calculus, Physics, Economics.

#### **2013 & 2014** (Levels 2 & 1)

- Achieved with excellence. (93E, 9M, 22A) & (54E, 42M, 35A).
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## Work History

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### **Victoria University – Faculty of Engineering** **2017 – Present**

Supervising labs for COMP102, addressing students and assisting students with questions related to assignments.

Weekly meetings with course co-ordinator and head of tutors to discuss upcoming labs and marking.

Marking student's assignments and providing feedback on their performance, code style and bugs.

### **UPS Power Solutions Ltd** **2014 – Present**

Dismantling and removal of old UPSs<sup>2</sup> from sites such as Weta Workshops & Fairfax Media.

Assisting in construction of houses and surrounds. Installing insulation (floor & wall), drywall, concrete mixing and moulding, painting, staining and lawn mowing.

### **PMP Distribution – Paper Run** **2009 – 2014**

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## Profile

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I am a full-time second year student studying software engineering at Victoria University with interests in many areas including game development, graphics and in the future, AI (Only available 3<sup>rd</sup>/4<sup>th</sup> year). I am a very driven individual with a strong academic record both in secondary school and currently at university. I enjoy almost all areas of software engineering but have had little paid experience to develop my tastes. Looking for a role in a progressive, cutting edge company where I can fully apply and grow my skills.

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<sup>1</sup> Using this website: [nz.crimsonconsulting.org/ncea-converter](http://nz.crimsonconsulting.org/ncea-converter)

<sup>2</sup> Uninterruptable Power Supply. Freestanding unit that provides power in the event of a power cut.

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## Projects

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- There are numerous assignments from COMP261 that are complex and demonstrate a wide array of my skills. These include shortest path algorithms, 3-D rendering, parsing, string searching and compression. My solutions have all been uploaded to GitHub. These are completed assignments so please handle discretely.
  - QR Scanner is a personal project that uses ZXing to scan a wide array of barcode types and nicely displays the output for supported QR types. I started this project in my own time to start learning how to develop apps for Android, an area I am interested in.
  - TankWars was the final assignment for a computer graphics paper I took in 2016. It is heavily inspired by the online game 'Tank Trouble'. It is a good example of my ability to program using multiple classes and interfaces. There are still several features I wish to add to it.
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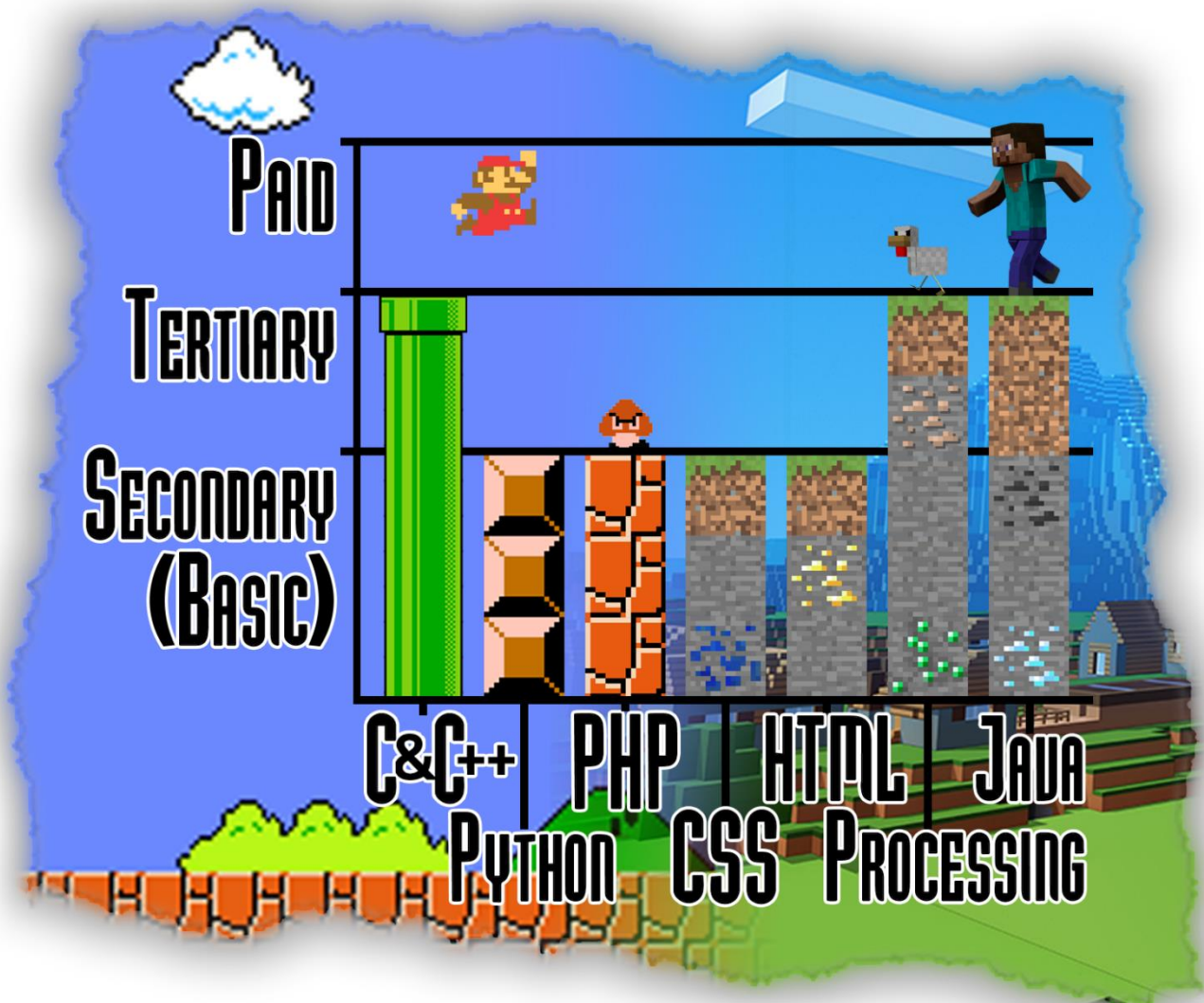
## Interests

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- PC Gaming: I love playing games, exploring new worlds, creating new things, getting invested in rich story narratives and playing online with friends. The first game I played was Age of Empires 2 and I haven't looked back since. Steam profile: [steamcommunity.com/id/hacksparrow](https://steamcommunity.com/id/hacksparrow).
  - Computer Hardware: I enjoy keeping up to date with the latest consumer hardware. I can build PCs and to date have built 5+. I am frequently asked to provide purchase recommendations to family and friends.
  - Exercising: I train about 5 – 6 times a week and enjoy going to the gym, cycling, running. I also rowed throughout my college years.
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## Programming Language Experience<sup>3</sup>

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<sup>3</sup> Self-taught skills include, Photoshop and Android Development.

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## Soft Skills

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### Teamwork & Leadership



- Strong ability to work within a team and when required, lead.
- A good example of this is the SCARA arm group assignment of 2016 where I took a leadership position.
- Overall the group achieved a mark of 96% for the performance of our SCARA arm.

### Trainable



- I can quickly understand new concepts independently or with the assistance of teammates.
- Evidence of this is the AVC group assignment of 2016 which in which we used GitHub and C++ for the first time.
- Completed with a mark of 75% and I achieved 100% on my related individual report.

### Organising and planning



- Very organised and plan well in advance for events, assignments and other commitments.
- This is shown by my high level of university performance while working both as a tutor and manual labourer for UPS power solutions.

### Independent



- Independent, highly driven and motivated. I can independently write cohesive, reliable and tested code.
- Demonstrated by my Android QR scanner project that I started in the summer holidays of 2016/2017.
- The result is a reliable QR scanner that uses ZXing to support and display the results of a large amount of different barcode formats.

### Performance Driven



- I take great pride in delivering my very best performance whether it be for academic or paid work.
- Shows in many aspects of my life including my academic results from NCEA onwards.

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## Referees

<b>Sean Durkin</b>	<b>Graham Blackmore</b>	<b>Deidre Burke</b>
Solicitor Russell McVeagh Past rowing coach of 3 years. 021-116-6858 sean@durkinfamily.co.nz	Director UPS Power Solutions Ltd Employer 021-977-515 graham@upspower.co.nz	Garden Designer  Past head of rowing & employer 027-472-7120 deidreburke@gmail.com