

ELLIOTT VERCOE

A902/40 Shoreline Drive, Rhodes NSW 2138

www.linkedin.com/in/elliott-vercoe

Email: elliott.vercoe@gmail.com Mobile: 0430283543

WORK EXPERIENCE

BECODE - <https://app.becode.com.au/>

Software Developer

January 2018 - Present

BECODE is a tool for the construction industry to provide custom summaries of construction code standards and requirements. My roles and technologies include:

- Backend Django web development (Django, Python, PostgreSQL)
- Designing and managing business logic databases and processes (SQLite, PostgreSQL, Python scripting)
- Product design and development, including writing software specifications and detailed documentation
- Agile project management (Jira), source control (Git, Bitbucket)

Performance Based Consulting (PBC)

Fire Safety Engineer

March 2017 - December 2018

I worked as a fire safety engineer on a variety of projects including Sydney Metro.

Engineering Commissioning Services (ECS)

March 2016 - December 2016

Undergraduate Mechanical Engineer

EDUCATION

University of New South Wales

2018-2019

Master's of Information Technology (Machine Learning / Data Science)

Weighted Average Mark: **83.6**

I am currently undertaking a 2 year Master's program majoring in machine learning and data science. It will be completed by December 2019.

Notable results include:

- COMP9315 Database Systems Implementation - 97 HD
- COMP9101 Design and Analysis of Algorithms - 90 HD
- COMP9021 Principles of Programming - 90 HD

University of New South Wales

2013-2016

Bachelor of Engineering (Mechanical)

Weighted Average Mark: **84**

Thesis - Low energy orbital transfers for trans-lunar injection, and for the capture of near earth objects (A MATLAB simulation of orbital dynamics). High Distinction (87)

UNSW Dean's List

2013, 2014, 2015, 2016

VOLUNTEERING

UNSW Outdoors Club Trip Leader

2016 - Present

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SKILLS

Python - Django / Web Development

- My experience at BECODE involved working on 2 different Django projects as a professional back end developer
- Experienced with test driven development within Django.
- Achieved a mark of 84 in COMP9321 Data Services Engineering, which developed practical skills for managing data in service-oriented data-driven applications, and had significant focus on developing RESTful APIs and their principles

Python - General

- Pandas
- PyTorch (Machine Learning Library)
- PEP 8 styling
- General Python scripting including working with data, interfacing with databases, networking with sockets, regular expressions, etc
- My computer science fundamentals course (COMP9021) was in Python, and I achieved a mark of 90

SQL

I am experienced with PostgreSQL and SQLite. My degree is specialising in data science, and I am comfortable with database design, complex database queries, and best practices.

C

I used C in my second-level data structures and algorithms course (COMP9024), in which I achieved a distinction. I've also worked with C in my DBMS Implementation course (COMP9315) in which we experimented with the PostgreSQL source code, in which I achieved a mark of 97.

Other Technologies

Statistical Analysis Software (SAS) - Used for MATH5855 Multivariate Statistical Analysis - Achieved a Distinction

Hadoop / Spark / Scala - Used for COMP9313 Big Data Management - Achieved a High Distinction

Elasticsearch - Used for COMP9313 Big Data Management - Achieved a High Distinction

REFERENCES - CONTACT AVAILABLE ON REQUEST

Pete Sanderson

General Manager at BECODE / Performance Based Group