

Grant Holtes

www.grantholtes.com | gwholtes@gmail.com | +61 404 288 322 | Melbourne, Australia

Education

Graduate Diploma, Computer Science, University of Melbourne

Mar 2021 – Present

The Graduate Diploma covers the equivalent of a major in Computer Science. This is a two year part time course.

BCom Finance and Economics, minor in Engineering, University of Melbourne

Mar 2016 – Nov 2018

Minored in structural engineering alongside my commerce studies, providing a foundation of knowledge across finance, econometrics, corporate management, construction and public policy.

- Awarded the FBE medal for the highest final GPA in the Commerce Faculty
- First Class Honours (90%)
- Commerce Dean's List 2016, 2017, 2018 (top 3% of faculty for each year)
- BCom future leaders forum 2017, 2018

Work Experience

Senior Consultant at Deloitte Consulting, Melbourne

Mar 2019 - Present

Currently working as a data scientist and software engineer, developing computer vision solutions for traffic management. Previously provided data analysis and project management for a national telecommunications construction project and developed personalisation systems for ecommerce applications.

Responsibilities:

- Data science advisory and implementation, software development to implement ML solutions
- Data analysis for financial, resource and workload planning
- Project management, stakeholder management and executive presentations

Achievements:

- Developed a computer vision solution to analyse thousands of live CCTV feeds in a fog architecture
- Developed a lightweight vehicle tracking model that runs at 5x the framerate of SORT¹ for edge deployment
- Advised payments of A\$100M+ and A\$10M+ in resourcing on a telecommunications construction project
- Lead a small team to develop OCR solutions, saving 10,000 FTE hours

Machine learning R&D Engineer at CreativeHub.io

Jan 2021 - Present

Developed a novel unsupervised ML model to quantify image style and allow users to search by image, with the aim of matching artists and marketing professionals.

Responsibilities:

- Develop and test ML models in Tensorflow, built web applications with Python, Flask, FastAPI
- Work with the CTO and CEO to manage project requirements, timeline and budget

Achievements:

- Developed a lightweight solution to style capture, embedding and search

Tutor at Queens College at the University of Melbourne

Mar 2017 - Jun 2020

Queens is an academic college at the University of Melbourne where I taught from my second year of university.

Responsibilities:

- Taught undergraduate level economics and statistics students

Achievements:

- 99% student pass rate

Intern at Viburnum Funds, Perth

Nov 2017 – Dec 2017

Viburnum Funds is an Australian PE and strategic equities fund based in Perth.

- Provided research into potential investments
- Gained experience in valuing high growth technology companies

¹ SORT is a comparable and widely used object tracking model

Extracurricular and Volunteer Activities

Treasurer for The Wyvern Society

May 2019 - Present

Acting treasurer for The Wyvern Society, the alumni society for Queens College.

- Provisioned a fee relief for 13 students to mitigate the impact of Covid-19
- Produced yearly financial reports

Big Brothers Big Sisters

Aug 2020 - Dec 2020

BBBS is a volunteer youth mentoring service, aiming to provide positive role models to young people

- Developed scalable initiatives to reduce youth loneliness.

Data Scientist at Look and Learn

May 2019 - Present

Look and Learn is a large online collection of historical imagery and illustrations.

- Lead a proof of concept project to develop a search engine that captures art style

Writer at Towards Data Science, Hackernoon

Dec 2017 - Present

Hackernoon and Towards Data Science are the 4th and 13th largest online publications on Medium.com.

- Wrote on a range of technical subjects
- Writing viewed by 36,000 people

Side Projects

For a full list of side projects please see www.grantholtes.com

Spotify playlist optimisation

Dec 2021

Studied the relationship between income and access to essential retail providers in Victoria.

Food desert mapping in Victoria

Jul 2020

Studied the relationship between income and access to essential retail providers in Victoria.

Viral fashion investigation

Jan 2019

Developed a simulation to understand why Germans stopped wearing ties in the office using methods from epidemiology.

Navigation app for urban cyclists

Dec 2018

Designed and built an app to provide a new method for navigating urban environments and fix issues with Google maps.

Unbeatable connect 4 game

2017

Built a connect 4 player that always wins.

Technologies, Skills, Work Rights

Passports: New Zealand, South Africa, Netherlands

Work Rights: Australia, EU, South Africa and New Zealand

Skills:

Analytical problem solving, Statistical modelling, Operations, PMO, Client relationship management, Presentation, Machine Learning, Computer Vision, Software development

Technologies:

Proficient in: Python, R, Excel, AWS

Working knowledge of: SQL, Stata, SAS, MATLAB, Julia

Currently studying: AWS development, Computer science