

# George Townsend

george@georgetownsend.com

## WORK EXPERIENCE

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- **Anditi**  
Data Controller - New South Wales  
Quality assurance for spatial data products derived from aerial and terrestrial LiDAR  
*December 2021 - July 2023*
- **University of Newcastle**  
Success Partner - Callaghan Campus  
Assistant to first year engineering students  
*January - July 2023*
- **Venue Industry Professionals**  
Customer Service - McDonald Jones Stadium  
Ticketing, ushering, assisting with general enquiries  
*May 2021 - July 2023*
- **Spontaneous Marketing Concepts**  
Sales - New South Wales  
Promoting donations to the Children's Cancer Institute  
*January - March 2020*

## EDUCATION

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- **Bachelor of Surveying (Honours)**  
University of Newcastle  
*2021-2024*

## SCHOLARSHIPS

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- **CESE Summer Research Scholarship**  
**Topic:** Machine Learning Techniques for Interference Detection and Anomaly Identification of Satellite Data  
*Summer 2022/2023*

## INTERNATIONAL EXPERIENCE

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- **Exchange Student to Newcastle upon Tyne**  
University exchange to the United Kingdom  
*September 2023 - June 2024*
- **Exchange Student to Groningen**  
High school cultural exchange to The Netherlands  
*January - October 2018*

## HOBBIES & INTERESTS

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- **Technical**  
Networking, Linux, Python, GNURadio, QGIS,  $\LaTeX$
- **General**  
Camping, chess, history, podcasts, travel, volleyball

## PROJECTS

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- **Radar Imagery Georeferencer**  
Georeferencing tool targeting radar imagery from the Australian Bureau of Meteorology  
*Python, GDAL*
- **Fractal Shader**  
GPU-accelerated fractal shader for the Mandelbrot set  
*Python, NumPy, Numba, PyGame*
- **/r/place Archiver**  
A tool to archive, visualise, and analyse data from the annual Reddit "Place" events  
*Python, NumPy, Matplotlib*

## VOLUNTEERING

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- **Surveying Student Representative**  
Represented the interests of second year Surveying students at the Student Forum  
*2022*
- **University of Newcastle**  
Volunteering with the "Uni Crew" for student events  
*June 2021 - July 2023*
- **Woodford Folk Festival**  
Deployment and technical support for Square point of sale systems  
*New Years 19/20 + 22/23*
- **Falls Festival**  
Warehouse assistant  
*New Years 18/19*
- **De Stofwisseltour (Cycling Tour)**  
Logistical support / Photographer  
*June 2018*