

CHARLIE ARUA IKOSI

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PERSONAL SUMMARY

Highly motivated and dedicated GIS professional with a passion for utilizing geospatial technology as a solution to solving complex problems. Is proficient in GIS, Remote Sensing, Python, R programming and WebGIS with a solid understanding of software such as ArcGIS and QGIS. Has demonstrated experience in 3D visualisation using R programming as well as in animation using Blender. Always in pursuit of new challenges and opportunities to expand skillsets in this exciting and dynamic field.

EDUCATION

Professional Masters in Geospatial Science and Technology

UNIVERSITY OF CANTERBURY – New Zealand

January 2021 – February 2022

Skills Acquired

Python Programming | Data Wrangling | Remote Sensing Data acquisition and analysis of Multispectral and SAR imagery | Exploratory Spatial Data Analysis | Statistics | Academic Research

Graduate Diploma of Science in Geography

UNIVERSITY OF CANTERBURY – New Zealand

February 2020 – November 2020

Skills Acquired

R Programming | GIS principles and methods - Critical analysis using statistical tests

Certificate in GIS for Earth Scientists

UTRECHT UNIVERSITY – The Netherlands

July 2018 – July 2018 (2-week summer school)

Skills Acquired

ArcGIS mapping software

Bachelor of Science

UNIVERSITY OF PAPUA NEW GUINEA – Papua New Guinea

January 2010 – November 2013

Skills Acquired

Geological Mapping and Core logging | Surveying and GPS | Mineral Identification | Report writing

KEY SKILLS

- Drone Surveys
- ArcGIS Competent
- Python Programming
- R programming
- Spatial Data Analysis
- Remote Sensing Analysis
- WebGIS and Visualisation
- PostgreSQL

OTHER EDUCATION & TRAINING

- **2017**
Training course in Remotely Piloted Aircraft Systems, NQUAV, Australia
- **2012**
Geology Internship, Newcrest Mine, Lihir, Papua New Guinea

ACHIEVEMENTS

- 2021 – University of Canterbury Student Mentor
- 2021 – University of Canterbury Advertising Campaign student model

PROJECT PORTFOLIO

- **3D Visualisation**
<https://github.com/charlieikos/i/LiDAR-3d-vis-with-r>
- **WebGIS Airport Inspector App**
<https://github.com/charlieikos/i/Airport-Inspector>

INTERESTS

- Camping
- Football
- Climate Change
- Global Issues
- Fishing
- Reading

CHARLIE ARUA IKOSI

PROFESSIONAL EXPERIENCE

Founder

Pinpoint Consultancy – Papua New Guinea

October 2022 – Present

Role

Build relationships and business name with industry partners.

Key Responsibilities

Research, explore and develop geospatial tools and software.

Intern Strategy & Analytics (Geospatial)

Think City – Malaysia

March 2022 – June 2022

Role

Perform geospatial research and GIS analysis in an urban and environmental related domain

Key Responsibilities

Develop rasterised GIS model layers for multi-criteria land allocation modelling

Intern Geospatial Researcher

Geospatial Research Institute – New Zealand

July 2021 – November 2021

Role

Research and test algorithms for creating 3D visualisations of buildings

Key Responsibilities

Develop algorithms using R programming

Skills Acquired

Spatial data acquisition using R programming | 3D building visualisation

Achievements

Contributed to the development of a national scale 3D buildings dataset for New Zealand by developing an algorithm that used building footprints and LiDAR point cloud datasets

Geologist & Airstrip Surveyor

RURAL AIRSTRIP AGENCY – Papua New Guinea

April 2017 – January 2020

Role

Inspect rural grass airstrips according to Civil Aviation Safety Authority standards of Papua New Guinea using Advisory Circular Part 139.

Key Responsibilities

Process and analyse aerial imagery using Pix4D | Produce maps and 3D models using ArcGIS

REFERENCES

AVAILABLE UPON REQUEST