

# 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 and Piloting
- ArcGIS Competent
- Python Programming
- R programming
- Spatial Data Analysis
- Machine Learning
- Remote Sensing Analysis
- WebGIS
- 3D Visualisation
- PostgreSQL
- Scientific Research
- Data wrangling

## OTHER EDUCATION & TRAINING

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

## ACHIEVEMENTS

- 2019 – NZ Manaaki Scholarship Recipient
- 2021 – University of Canterbury Student Mentor
- 2021 – University of Canterbury Advertising

## PORTFOLIO

- <https://charlieikosi-portfolio.netlify.app/>

## INTERESTS

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

# CHARLIE ARUA IKOSI

## PROFESSIONAL EXPERIENCE

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### **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

# CHARLIE ARUA IKOSI

## REFERENCES

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1. **Joel Goh Tze Wen** (Think City)  
Strategy & Analytics Team Lead  
Location: Kuala Lumpur, Malaysia  
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2. **Ioannis Delikostidis** (University of Canterbury)  
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