

# Alpha Tshibangu

**Location:** Canberra, Australia | **Mobile:** (+61) 470 273 821

I'm an experienced software developer with diverse technical skills in Python, JavaScript, HTML/CSS, and React Native/JS. Passionate about ML, DL, AI, and Networking. Collaborative problem solver, always striving to create impactful software and constantly seeking new challenges to expand my skills.

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GitHub:

[github.com/Alpha-Tshibangu](https://github.com/Alpha-Tshibangu)

Portfolio:

[alpha.tshibangu.page](https://alpha.tshibangu.page)

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## EXPERIENCE

### Chartertech, Internship — Automation Developer

JUN 2022 - AUG 2022

- **Tools:** Automation Anywhere, Automation 360.

### Chisholm Healthcare, Part-Time — Software Developer

OCT 2021 - Present

- **Tools:** FastAPI, REST APIs, Firebase, Firestore, GCP, Heroku, React.js, Git.

### New Colombo Plan Mobility Program — Grant recipient

MAY 2023 - JULY 2023

- **Description:** Worked at GoBankMe Technologies and Chocolate Finance in Singapore as an intern Software Engineer, helping to develop the Chocolate Finance mobile application for Chocolate Finance and improve operational systems within GoBankMe Technologies and supporting the development of their Canvas Mobile Payments application.
- **Tools:** PHP, Laravel, Laravel Nova, AWS, SQL, React.js, Git.

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## PROJECTS

### Scripture Application — Mobile Application

NOV 2022

Created a high-quality verse translation app in 200 languages, including low-resource languages with limited access to the bible.

- Utilises Meta AI's NLLB200 machine translation technology.
- User interface created with React Native for seamless user experience.
- Backend developed in Python for efficient processing.
- Employs a self-developed REST API for communication between the frontend and backend.
- Implemented advanced NLP techniques for verse-searching.

**Tools:** React Native, Python, Meta AI's NLLB200, REST API, FastAPI, Uvicorn, Git.

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## Chisholm Medical Centre A.I. — Web Application

DEC 2022

Developed a Question-Answering web application for Chisholm Medical Centre.

- Utilises the roBERTa-base machine learning model for accurate Question Answering.
- Employs Extractive Question Answering techniques for the processing of questions.
- Dynamic user interface created with vanilla JavaScript, HTML and CSS for optimal user experience.
- Backend powered by the roBERTa-base model trained on the SQuAD2.0 dataset.

## Artificial Real Estate Intelligence (AREI) — Web Application

DEC 2022

Developed an Artificial Intelligence capable of answering questions about current real estate listings.

- Utilises the Generative Pre-Trained Transformer (GPT) 4 large language model.
- Employs generative question-answering from database-returned results.
- Dynamic user interface created with the React Framework.
- Backend developed in Python and hosted using a docker container on a Kinsta VM.
- Amazon S3 Database for Real Estate Listings.

**Tools:** JavaScript, HTML, CSS, roBERTa-base, FastAPI, Kinsta, Firestore, Docker, GCP, Git.

## Chisholm VAT (Virtual Assistant Technology) — Web Application

AUG 2023

Developed a robust Virtual Assistant Technology for Chisholm Medical Centre using FastAPI, a voice assistant for medical appointment bookings and general enquiries.

- Utilises a diverse tech stack including Python, FastAPI, OpenAI, Vonage, Pinecone, and others.
- Employs OpenAI's whisper model, GPT-4, Pinecone Vector Database, and HotDoc.
- Vonage Voice API for handling incoming calls and call flow logic.
- Backend developed in Python and hosted using a docker container on a Kinsta VM.

**Tools:** Python, FastAPI, OpenAI, Vonage, Pinecone, Git, Docker, Kinsta

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## CERTIFICATION

**Supervised Machine Learning: Regression and Classification** — Coursera

[View Certificate](#)

**Automation Anywhere Certified Advanced RPA Professional** — Automation 360

[View Certificate](#)

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## SKILLS & TECHNOLOGIES

React.js, React Native, Python, Node.js, Javascript, HTML, CSS, REST APIs, Webhooks, Google Cloud, GitOps, MongoDB, Amazon S3, Firebase, GCP, Docker, DevOps, Kinsta.

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## EDUCATION

### **University of Canberra** — Bachelor of Science (Psychology)

FEB 2021 - NOV 2021

One-year study of a Bachelor of Psychology at the University of Canberra. Initially pursued psychology but changed direction to follow a passion for technology, business and entrepreneurship. Psychology studies provided valuable insight into human thought and behaviour, aiding in the development of tech applications.

### **University of Canberra** — Bachelor of Commerce & Information Technology

FEB 2022 - NOV 2022

Pursued a Bachelor of Commerce & Information Technology double degree, acquiring technical programming skills and understanding business principles through a well-rounded curriculum. Developed proficiency through self-study and consistently high academic performance, earning a 6.0 GPA.

### **University of Canberra** — Bachelor of Information Technology

FEB 2023 - Present

Switched to a Bachelor of Information Technology to allow early graduation and advance my career through work experience and postgraduate study.