

Holly Judge

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WORK EXPERIENCE

NTT DATA

Software Engineer

Johannesburg, South Africa

Sept 2024 – Present

- **Engineered advanced frontend interfaces** using React, integrating dynamic data flows, real-time updates, and complex UI logic for enterprise-scale applications in banking, retail, and healthcare.
- **Developed and maintained robust backend services** with FastAPI and Redis, creating RESTful APIs that connect data pipelines, ML models, and external services to end-user interfaces.
- **Integrated AI agents into production systems**, building the backend orchestration layer and frontend interaction components to enable intelligent, interactive user experiences.
- **Collaborated closely with data and AI teams** to bridge models and UX, ensuring seamless deployment of intelligent features into production environments.

First National Bank

Quantitative Analyst

Johannesburg, South Africa

Jan 2024 – Aug 2024

- **Extracted, cleaned, and analysed data** using SQL and SAS to uncover performance patterns among bankers and sales teams.
- **Identified conversion trends** at each stage of the home loans pipeline — from lead generation through execution — to inform strategic interventions.
- **Built interactive Power BI dashboards** to visualize pipeline performance and deal progression, enabling leadership to track execution and optimize lead management strategies.

Vernonburg Group

Software Engineer

Remote

Sept 2023 – Dec 2023

- **Engineered interactive mapping dashboards** leveraging React, Django, and PostgreSQL to visualize broadband data and support policy modelling across the U.S.
- **Designed REST APIs** that scale to millions of geographic data points, supporting decision-making at state and federal levels.
- **Built backend services** to deliver real-time insights into funding and connectivity impacts.
- **Delivered high-resolution, multi-layer mapping capabilities** to enable more precise targeting of infrastructure investments across multiple countries.

Dimagi

Software Engineer Intern

Remote

Dec 2022 – Jan 2023

- **Developed features** for CommCareHQ Web within the stack of Python, Django, PostgreSQL and Docker.

Karri Payments

Software Engineer Intern

Remote

July 2021 – Aug 2021

- **Developed backend APIs** for new business features using SpringBoot.

EDUCATION

University of Cape Town

BSc (Honours) Computer Science

Cape Town, South Africa

Jan 2023 – Dec 2023

- Grade: First Class
- Relevant Coursework: Artificial Intelligence, Big Data, Information Retrieval, Human Computer Interaction, Virtual Reality, Functional Programming, Compilers

- Thesis: Developed a web and app-based community radio and deployed it on iNethi. iNethi is a software platform supporting community wireless networks across Africa.

University of Cape Town*BA Computer Science and English Literature*

- Grade: Distinction

Cape Town, South Africa

Jan 2020 –Dec 2022

University of Melbourne*BA English Literature (Transferred)*

- Grade: Distinction

Melbourne, Australia

Jan 2018 –Dec 2018

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL**Frameworks & Libraries:** React, Django, Node.js, FastAPI, SpringBoot**Databases:** PostgreSQL, MySQL, MongoDB**Tools & Platforms:** Git, Docker, Azure, AWS, Netlify**Other:** REST APIs, Mapbox, Linux, Agile/Scrum**CERTIFICATIONS**

Microsoft Certified: Azure Fundamentals (AZ-900)