

## Professional Experience

### Victoria University of Wellington, New Zealand

Research Assistant

Aug 2023 – Present

- Released a **machine learning and data analysis platform** for streaming data sources that leverages the distributed system architecture to **open source**.
- Optimized the platform for a **real-world use case** pertaining to predicting energy pricing based on historical data for energy consumption and dispatch energy prices.
- Designed and implemented **data pipelines and data processing workflows**, using technologies such as **Kafka, and Spark** to enable the efficient processing of large-scale data sets.

### DIMO DMCC, Dubai, United Arab Emirates

Technical Advisor

Feb 2023 – Aug 2023

- Liaised with the senior leadership and development team to **streamline the onboarding process** of the new team.
- Effectively communicated complex technical concepts to **non-technical stakeholders**, facilitating informed decision-making.
- Worked with product managers, developers, and marketing teams to **align technical strategies** with business objectives.
- Identified potential technical risks and **devised mitigation strategies** to ensure smooth project execution.

Chief Architect

Feb 2022 – Feb 2023

- Designed and developed the **technical architecture** of an **NFT marketplace** that reached a **trading volume of USD\$400,000** within the first few months of release.
- Led a **core team of developers and external contractors** to deliver the NFT marketplace platform, managing the development process from inception to launch, followed by maintenance and updates.
- Collaborated and **engaged with the community and creators** to ensure that the platform aligned with customer needs.
- Led the exploration and implementation of **innovative features** to enhance **user experience and platform uniqueness** in the competitive NFT marketplace landscape.

### AI Institute, University of Waikato, New Zealand

Research Assistant

Jul 2021 – Aug 2022

- Developed an **adaptation of classic machine learning algorithms** that are modified to handle a **streaming source of data** and to leverage a **distributed architecture**.
- Contributed to a **soon-to-be open-source project** that delivers on the need for analyzing data streams in a fast and efficient manner by leveraging the parallelism capabilities of the distributed system.
- Implemented a range of **distributed machine learning algorithms**, including clustering, and anomaly detection, optimizing for both accuracy and scalability.

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## Technical Skills

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|----------------|------------|------------|--------------|
| • Apache Spark | • SQL      | • Solidity | • JavaScript |
| • Scala        | • React.js | • Python   | • TensorFlow |

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## Education

### University of Waikato, New Zealand

Bachelor of Computing and Mathematical Science with First Class Honours

Mar 2017 – Jun 2021

- Majored in Computer Science and minored in Data Analytics.
- Awarded an A+ on the Honours thesis** that focused on understanding how people reach consensus in a group setting.

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## Publications

### ACSOS-C, Washington, D.C., United States of America

Who is the Ringleader? Modelling Influence in Discourse using Doc2Vec

Oct 2021

Priyank Vyas, Tony Smith, Philip Feldman, Aaron Dant, Andreea Calude, and Panos Patros

- Formulated a novel metric to describe and a way to visualize the amount of social influence an interlocutor exerts in a small group discussion that aims to reach consensus over a polarizing topic.

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## Honors and Awards

**Research & Enterprise Study Award**, Research and Enterprise, University of Waikato, New Zealand

Nov 2020

**FCMS Dean's Award for Excellence**, Te Mata Kairangi School of Graduate Research, University of Waikato, NZ

Oct 2020

**Golden Key Honour Society Initiate**, Golden Key University of Waikato Chapter, University of Waikato, NZ

Jun 2019

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## Interests and Hobbies

Online gaming (Dota 2), watching anime, and reading manga.