

# Jia Rong Wu



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## About Me

I am a software engineer and academic. I have been writing software for over a decade starting with Java/C, analyzing data with R/Python, and building models using Tensorflow. Throughout my career, I've built startups from the ground-up, taught at academic institutions, and driven revenue positive operations for enterprises.

## Skills

Enterprise Sales



Problem Solving



Collaboration



Teaching



Object Oriented Programming



Functional Programming



## Programming Languages

1. Python
2. R
3. GoLang
4. Java

## Frameworks

1. Tensorflow
2. PyTorch
3. \*nix systems

## Tools

1. Git
2. Docker
3. Kubernetes
4. Hubspot

## Experience

Tyk Technologies

Solutions Architect

[09/2021 - Present]

- Solutionize, support, and close strategic deals in complex sales cycles
- Generate \$2M+ ARR by closing deals through technical consultations and demonstrations
- Develop innovative software & demo solutions to support sales efforts
- Collaborate with cross functional teams to prioritize revenue-generating features

AUSPRE

Machine Learning Engineer

[02/2019 - 09/2021]

- Spearheaded the development and deployment of efficient ETL data pipelines
- Trained, tested and deployed end-to-end Transformer models for speaker diarization and speech-to-text workflows using Tensorflow
- Secured funding through delivering pitches and writing grants, enabling business growth

Eighty8 Ventures

Full Stack Developer

[01/2017 - 02/2019]

- Engineered robust microservices using Python, PHP and MySQL, powered by ReactJS
- Implemented algorithms to solve complex technical issues and optimized code, resulting in performance improvements of over 200%
- Collaborated with stakeholders in an Agile development environment, consistently meeting and beating project deadlines

Western University

Software Developer

[05/2015 - 06/2016]

- Refactored data analysis pipelines in C, optimizing time complexity from  $O(n^2)$  to  $O(n \log n)$
- Authored multiple peer-reviewed publications regarding compositional data analysis
- Presented at global research conferences such as International Society for Computational Biology

## Education

Waterloo University

Ph.D. Candidate in Computer Science (ABD)

[2018 - 2022]

Applications of AI in Proteomics

Waterloo University

M.Sc. Mathematics

[2016 - 2018]

Computer Science

Western University

B.Sc. Honours Computational Biochemistry

[2012 - 2016]

Computer Science

## Certifications

Linux Foundation

Certified Kubernetes Application Developer

[01/2023]

## Publications

Finding the centre: corrections for asymmetry in high-throughput sequencing datasets

JR Wu, JM Macklaim, BL Genge, GB Gloor

[2021]

Advances in Compositional Data Analysis

It's all relative: Analyzing microbiome data as compositions

GB Gloor, JR Wu, V Pawlowsky-Glahn, JJ Egozcue

[2016]

Annals of epidemiology 26 (5), 322-329, 2016

Expanding the UniFrac Toolbox

RG Wong, JR Wu, GB Gloor

[2016]

PloS one 11 (9), e0161196, 2016

Tu1712 Comparison of Intestinal Microbiome Between NAFLD and Healthy Controls

A Teterina, H Da Silva, G Gloor, JR Wu, BM Arendt, EM Comelli, S Fischer, ...

[2016]

Gastroenterology 150 (4), S927, 2016