Jia Rong Wu

☎ +1 2269807654

@ jwu424@gmail.com

🌐 https://jiarongwu.com

✍ https://github.com/JRWu

ℹ https://www.linkedin.com/in/jia-rong-wu/

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 closed strategic deals for enterprises.

Skills

Enterprise Sales

Problem Solving

Collaboration

Teaching

Object Oriented Programming

Functional Programming

Programming Languages

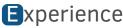1. Python
2. R
3. GoLang
4. Java

Frameworks

1. Tensorflow
2. PyTorch
3. *nix systems

Tools

1. Git
2. Kubernetes
3. 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 $O(nlogn)$
- Co-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

2023   Certified Kubernetes Application Developer

Publications

2021   Finding the centre: corrections for asymmetry in high-throughput sequencing datasets

2016   It's all relative: Analyzing microbiome data as compositions

2016   Expanding the UniFrac Toolbox

2016   Tu1712 Comparison of Intestinal Microbiome Between Non-Alcoholic Fatty Liver Disease and Healthy Controls Using Two Analytical Approaches