

#### SENIOR SOFTWARE ENGINEER · PROJECT LEAD · DATA SCIENTIST

20976 Albion Ln, Ashburn VA 20147, United States

□ (+1) 650-260-3690 | ■ luwei.here@gmail.com | • weilu | ■ luweidewei | • ms.luwei

## Summary\_

- Effective project lead with excellent technical, analytical and communication skills
- Pragmatic technology and innovation thought leader in public and private sectors
- Well-rounded, full-stack software engineer
- · Highly effective data science practitioner in economics research context
- · Programming language polyglot

## Experience \_\_\_\_\_

World Bank United States

CONSULTANT Nov. 2020 - Current

I'm currently working as a consultant on the Governance team of the Development Impact Evaluation (DIME) department. DIME develops customized data and evidence ecosystems to produce actionable information and recommend specific policy pathways to maximize impact.

- Leading the data platform component of the Microdata & Evidence for Government (MEGA) global public good initiative, including product management, business development, data engineering, and fundraising
- Advising DIME department leadership on data platform and information system strategic investment through the World Bank's ITS capital budget planning process
- Leading the project management and software development effort of Arbiter/Cadaster a mediation case management and analytics platform piloted and since productionized by the Kenyan Judiciary
- Leading the functional, technical and architectural design for the modernization of the Information System for Jordan Response Platform for the Syria Crisis (JORISS)
- Conceptualizing and co-leading the DIME Digital program through collaboration with Digital Development Global Practice's Global Challenge Program
- Designing and implementing impact evaluations through randomized controlled trials (RCTs) of web based interventions in various country context, including Peru, Kenya and France

Unit.IO Singapore

CO-FOUNDER & SOFTWARE ENGINEER & DATA SCIENTIST

Dec. 2017 - Dec. 2019

I co-founded unit.io to build quality software and data science solutions for our academic and corporate clients.

**Quantcast** Singapore

Engineering Team Lead Sept. 2014 - Nov. 2017

Quantcast is a technology company that uses big data to make online advertising more relevant for end users and more effective for advertisers.

- Leading the ad services team responsible for advertising campaign data distribution to bidding servers
- $\bullet \ \ \text{Re-architecting the real-time bidding (RTB) configuration data pipeline-from a batch system to an update stream$
- Two-time prize winner of the company hackathons

Hive Wallet Remote

LEAD ENGINEER Jan. 2014 - Sept. 2014

Hive brings secure, simple and cross-platform cryptocurrency wallet apps to the consumer market. As a company, Hive honors open source in their source code distribution, and decentralization in software design.

- · Development of the frontend and backend of hive-js, the web crypto wallet designed for evergreen browsers
- Core developer and maintainer on the most popular open-source bitcoin JavaScript library: bitcoinjs-lib

Pivotal Labs Singapore

SOFTWARE ENGINEER Dec. 2011 - Jan. 2014

Pivotal is a global agile development consultancy. I was trained to become a consultant to help our clients create their app from scratch while building their engineering team with agile practices and principles.

- Full stack test-driven development of web services
- Building data pipeline with Amazon EMR and analytics tools

JANUARY 18, 2024 WEI LU · RÉSUMÉ

### Education\_

### **Massachusetts Institute of Technology**

**United States** 

MASTER OF SCIENCE - DATA, ECONOMICS, AND DEVELOPMENT POLICY

Jan. 2018 - Jun. 2018, Jan. 2020 - Aug. 2020

GPA: 5.0/5.0

### **National University of Singapore**

Singapore

MASTER OF COMPUTING - COMPUTER SCIENCE

Aug. 2018 - Dec. 2019

CAP: 4.58/5.00, First Class Honors

Thesis: Learning Cooperative Solution Concepts from Voting behavior

### **National University of Singapore**

Singapore

BACHELOR OF COMPUTING - INFORMATION SYSTEMS

Aug. 2007 - Dec. 2011

Minors: Mathematics, Technology Entrepreneurship

Dean's List Award (Top 5% of the cohort) for AY2009/2010 Semester 1 and AY2011/2012 Semester 1

### Technical Skills

### SOFTWARE DEVELOPMENT

- Web development using JavaScript, HTML5, CSS
- Experience with modern frontend and backend frameworks including: React, Django, Flask, Ruby on Rails
- Test driven development with unittest, Rspec, JUnit & Selenium
- Proficient with DevOps on Heroku and AWS EC2

### DATA ENGINNEERING & DATA SCIENCE

- Comfortable with creating and maintaining fully automated data pipelines
- · Building and tuning ML models for classification, regression, sentiment analysis, and anomaly detection
- Proficient in writing complex SQL queries
- Ability to design and implement a complex relational database schema
- Data visualization using python, R and JS libraries and BI tools such as PowerBI and Metabase
- Experience with NoSQL databases such as CouchDB and DynamoDB

#### **TOOLS**

- Programming languages in order of proficiency: Python, JavaScript, R, Java, Ruby, Bash, Perl, Stata
- Development with Vim, RubyMine, IntelliJ, Jupyter Notebook, Databricks
- Version Control using Git and Subversion
- Typesetting with LaTeX
- Comfortable with Linux (CentOS, Ubuntu, Fedora) and macOS operating systems

# Community \_\_\_\_\_

### ACTIVITIES

2023-now	<b>Organizer</b> , Computational Impact Meetup (Monthly Meetups)	Worla Bank, USA
2018	<b>Host</b> , JSConf Asia	Singapore
2018	<b>Organizer</b> , Global Diversity CFP Day	Singapore
2017-2019	Organizer, Singapore JS Book Club (Weekly Meetups)	Singapore
2012-2015	<b>Organizer</b> , Singapore JS Meetup Group (Monthly Meetups)	Singapore

### **CONFERENCE SPEAKING**

2014	JSConf Asia, HTTP Headers: the Simplest Security	Singapore
2014	CampJS, Bitcoin Workshop	Brisbane, Australia
2014	Global Bitcoin Summit, Peatio: an Open-source Crypto Currency Exchange	Beijing, China
2013	RubyConf China, Writing expressive tests with RSpec	Shanghai, China
2012	Red Dot Ruby Conf, A Journey into Pair Programming	Singapore