

Ephron Wu

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1101 W Van Buren St, Unit 1008, Chicago, IL 60607

EDUCATION

Northwestern University (NU), IL - Master of Engineering Management

Sep 2023 - Dec 2024

• Concentration in **Product Management**

Cumulative GPA: 3.89/4.00

Worcester Polytechnic Institute (WPI), MA - Bachelor of Science

Aug 2016 - Dec 2020

• Major in **Computer Science**, Minor in **Data Science**

Cumulative GPA: 3.81/4.00

WORK EXPERIENCES

State Grid Corporation of China, Beijing, China – *Full-time Software Engineer*

Mar 2022 - Sep 2023

Was responsible for the software development & maintenance for Internal e-Com team; co-led the project of Dianwang Mall

- Developed, deployed, and maintained Dianwang Mall, an internal e-commerce platform, using **MERN**, optimizing for fast load times and high user engagement for over 30,000 internal clients, resulting in a 33% increase in finance department processing efficiency
- Collaborated with cross-functional teams to deliver new features that resulted in thousands of active users and conducted code reviews and mentoring sessions with junior developers, fostering a culture of continuous improvement

Meta (Facebook), Menlo Park, CA – *Full-time Software Engineer*

Feb 2021 - Mar 2022

Was responsible for the software development & maintenance for Internal Community team; submitted more than 140 diffs

- Developed, deployed, and maintained the Facebook Groups Featured section using **Comet, JavaScript, PHP, Relay 3D, and GraphQL**, achieving a 70% adoption rate as a critical section for Facebook Groups' 1.8 million active users
- Monitored the performance of Featured module of Facebook Groups page and performed maintenance and software integration for existing features and modules; was responsible for on-call duty for Facebook Group, and no case was escalated, maintaining a 99.9% uptime

Amazon, Seattle, WA – *Full-time Software Engineer Intern*

May 2020 - Aug 2020

Supported the software development for Warehouse Delivery team; submitted more than 6,000 lines of code

- Collaborated with the mentors to develop and deploy loggers and related tests of the delivery system
- Expanded logging and built dashboards for the package transportation and delivery system using **Java**, enhancing monitoring capabilities

RESEARCH EXPERIENCES & PUBLICATIONS

Time Series Modeling with Applications in Economics and Public Health Program

July - Oct 2022

Guided by Professor Peter Kempthorne at Massachusetts Institute of Technology

- **Led** a four-member team to conduct project research and report, including research topic determination, project implementation plan, slides, data analysis and report writing
- Used **Time Series Analysis** method to further analyze the Research on the Analysis and Strategy of American Inflation in the Context of COVID-19, and wrote the relevant analysis report
- **Publication:** Yuxin Wu. "Research on the Time Series Analysis of Core CPI Index during the COVID-19 Pandemic". 2022 International Conference on Management Engineering and Economic Analysis. MEEA-2537, Oct 2022.

Depression Detector Application

Aug 2018 - Mar 2019

Guided by Professor Rundensteiner Elke at Worcester Polytechnic Institute

- **Led** a scrum team of 5 to Deploy an **Android Application** to collect and clean users' data using **Java**
- Trained and improved a **Machine Learning Pipeline**, using **Python**, that can introduce an evaluation of the state of the users' mental health based on their phone data in our server
- **Publication:** Yuxin Wu, J. Assan, M. Flannery, Y. Gao, A. Resom. "Machine Learning for Mental Health Detection". Digital WPI. E-project-032219-034328. Mar 2019.

SKILLS & CERTIFICATIONS

- **Language:** Java, Python, C++, JavaScript, PHP, HTML, CSS, R
- **Web:** REST, Spring, Apache Tomcat, Servlet, AWS, Comet, React, Relay 3D, Node.js, Appwrite, TanStack
- **Database:** MySQL, Oracle, MongoDB, GraphQL
- **Others:** Git, JUnit Test
- **Certifications:** AWS Certified Developer Associate, Google Project Management