Weon Yuan

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work experience

IBM   **Poughkeepsie, NY**
Advisory Software Engineer   Jun 2016 – Oct 2024
- Led a team of 12 developers in sprint planning and project executing, achieving a 98% on-time delivery for key deliverables over 3 years.
- Spearheaded a baseline threat model using STRIDE for the Systems Z organization (~1,100 employees), collaborating cross-functionally with 20+ teams to proactively identify vulnerabilities, standardize security protocols, and expedite threat modeling from 8 weeks to a week.
- Collaborated with subject matter experts and product managers to strategically design and implement an agile deployment roadmap for 2 quarterly releases, leveraging **Jira** for documentation and progress tracking.

projects

Breakdown   Nov 2024 – present
- Designed and developed a responsive personal finance web application using **TypeScript**, **React**, **Next.js**, and **Firebase** for real-time persistence and secure user authentication.
- Implemented intuitive expense logging and monthly tracking dashboards, enabling users to monitor spending trends from their devices (mobile / desktop).

IBM Z Deep Learning Compiler   Sep 2022 – Oct 2024
- Led backend development (**C++; Java**) and coordinated product delivery (**Jira**) compiling open-source AI models (**ONNX**) into optimized libraries for the IBM Z architecture.
- Developed internal tools to centralize and standardize runtime performance metrics of AI models, reducing engineers' troubleshooting time by 23%.

IBM Cloud Provisioning for z/OS   Jun 2016 – Sep 2022
- Led product delivery (**Jira**), backend development (**Java**), frontend development (**JavaScript**), and cybersecurity of a scalable enterprise application, adopted by 6 Fortune 500 companies.
- Automated legacy manual processes through **Python** scripts and **Jenkins CI/CD**, dramatically reducing completion time from approximately 1 week to 5 minutes.

skills
Java, JavaScript, REST API, Threat modeling, CI/CD, React, TypeScript, Next.js, Python, C++

education

Marist College   **Poughkeepsie, NY**
BS in Computer Science, minored in Psychology and Global Studies   Aug 2012 – May 2016

patents

Automated intelligent file conversion and execution (**US11645239B2**)   May 2023
Dynamic routing system (**US11181387B2**)   Nov 2021