LINGYU XU

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA
Master of Science in Information Technology   Jan 2024 - Dec 2025

Pennsylvania State University (PSU), State college, PA
Bachelor of Science in Computer Science   Aug 2015 - May 2020

SKILLS

Software Language: Python, Golang, Java, C, C++
Database: MySQL, PostgreSQL
Web Development: Angular, JavaScript/Typescript, Html5, CSS
BIG Data && Machine learning: TensorFlow**,** Scala, Spark, PIG
Testing & DevOps: PACT, Jenkins pipeline
Others: Docker, Kubernetes, GIT version management, JIRA, Confluence

EXPERIENCE

Full Stack Software Development Engineer, Dell Technology, Shanghai, China   Mar 2021 – Dec 2023
  - **Front-End Development:** Enhanced user experience by designing intuitive UI components (filters, forms, dropdowns) for initial setup, improving interaction and data presentation. Achieved over 93% test coverage through diligent contract and unit testing of modules.
  - **Back-End Development:** Improved server deployment reliability by 10% through the introduction of pre-validation steps and authored APIs to support server clustering. Established a robust network and storage environment for both Windows and Linux servers. Developed a SQL database for managing server configurations and user credentials, ensuring thorough testing with over 80% coverage.
  - **Automation & Testing:** Spearheaded the development of automated testing pipelines for cluster deployments, accommodating 6 configurations, which enhanced adaptability and efficiency. Proactively maintained CI/CD pipelines, addressing bugs and technical issues to streamline processes.
  - **Documentation & Collaboration:** Authored over 30 detailed Confluence documents, facilitating cluster deployment using Dell products and enhancing team knowledge sharing. Excelled as a Scrum Master for over 6 months, leading daily updates and fostering team collaboration.

Frontend Development Intern, Z&F Group, Shanghai, China   May – Aug 2017
  - Engineered a SharePoint-based document management system, customizing interfaces for 12 different departments to facilitate a paperless office environment, enhancing efficiency and collaboration.
  - Wrote maintenance Document for IT support team.

PROJECTS

Capstone Design, Capital One, State college, PA   Aug – Dec 2019
  - Machine Learning & Data Analytics: Mastered setting up TensorFlow from scratch, gaining skills in machine learning. Enhanced data quality through meticulous cleaning and processing, boosting analysis hit rate by 15%.
  - Model Development & Application: Developed predictive models using linear regression and decision tree methodologies to forecast monthly net and category-specific spending with 73% accuracy.
  - Integration & Team Collaboration: Played a crucial role in integrating predictive analytics with a user-friendly visual interface on a personal online banking platform.
  - Recognition of Excellence: Awarded 2nd Prize at the 2019 Capstone Design Showcase.

ADDITIONAL EXPERIENCE

Honor Student, Erie, PA   Aug 2015 – May 2016