

YUWEI WU

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EDUCATION

Northeastern University, Boston, MA Expected May 2025
Khoury College of Computer Sciences
Master of Science in Computer Science GPA: 4.0/4.0
Related Courses: Python, Java, Data Structures, Algorithms, Computer Systems, Database Management System
Activities: Teaching Assistant for Intensive Foundations of Computer Science - Python (CS5001), Rewriting The Code member

Tianjin Foreign Studies University, Tianjin, China Jun 2021
Bachelor of Arts in English Language and Literature GPA: 3.76/4.0
Related Courses: Databases, Statistics

WORK EXPERIENCE

HygieiaChronic, Boston, US Jun 2023 - Aug 2023
Founding Software Engineer

- Engineered a real-time health monitoring platform as part of a 6-person Agile team, focusing on high-stakes conditions such as Asthma, Seizure. Utilized **Spring Boot** to create a system that excels in high availability and fault tolerance.
- Developed an ETL Service responsible for collection, extraction, and persistence of signal data from terminal monitoring devices, enabling real-time data processing and analytics.
- Architected a real-time Notification Service with low-latency performance, utilizing **WebSocket** and **AWS Kinesis**. It allows immediate alerts to medical professionals upon detection of anomalous signals, enhancing patient safety.
- Designed and scaled a **PostgreSQL** database infrastructure capable of handling intense read and write operations, specifically tailored to manage extensive patient information securely and efficiently.
- Utilized **AWS Kinesis** for real-time event streaming and exploited **DynamoDB**'s high concurrency features to capture and analyze system health metrics, thereby providing actionable insights for system optimization.
- Led development of a robust **CI/CD** pipeline using **Jenkins** and **Argo CD**, deployed on **AWS ECR** and **EKS**. Streamlined local development workflows by implementing a Docker-based environment, increasing development velocity and reducing time-to-market.

Duke Kunshan University, Suzhou, China May 2021 - Jun 2021
Electrical and Computer Engineering Dep Intern

- Extracted 500 reviews by downloading data from Duke Kunshan social media using **Python**, contributing 20% improvement in marketing strategies.
- Collaborated closely with UI team to examine employment data of 120 graduates with **Power BI**, creating visually insightful representations of findings subsequently adopted by department.

Hangzhou Fuyang Third People's Hospital, Hangzhou, China Jul 2018 - Aug 2018
Software Engineer Intern Volunteer

- Partnered with a team of 3 to build 10+ web pages (e.g., register, login, home) with **React**, leading to a 20% decrease in user complaints related to website usability.
- Created web page to display diagnosis and provided function to export as PDF using **React** PDF libraries, improving accessibility and convenience of medical information.

SELECTED PROJECTS

Travel Blog Full Stack App | Express, React, Node, MongoDB May 2023 - Jun 2023

- Established a **MERN** stack social media web app within a month, leveraging CRUD to enable users to share travel experiences, completed with images and locations.
- Implemented backend by **Express** and **RESTful APIs** and manage data from **MongoDB**, custom UI/UX design, optimized system functionality by 10%.
- Accomplished functionality includes user authentication with session and cookies, user profile, traveling places.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, HTML/CSS, R
Frameworks: MySQL, MongoDB, PostgreSQL, React, Node.js, Express.js, Spring Boot, Spring MVC
Tools: AWS, Docker, Git, Tableau, PowerBI