Zheng Yin

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EDUCATION

Master of Science, Data Science   **01/2022 - 12/2023**
Northeastern University, Portland, ME
Relevant Coursework: Algorithm, Programming for Data Science, Data management and Processing

Bachelor of Engineering, Software Engineering   **09/2016 - 06/2020**
Northeastern University, Shenyang, China
Relevant Coursework: Data Structures, Database, Computer Networking, Web Development, Operating system

SKILLS

Programming*:* **Docker, SpringBoot, Java, Vue, AWS, MySQL, Python, Postman, Pandas**

PROFESSIONAL EXPERIENCE

Teaching Assistant, Introduction to Programming for Data Science   **09/2022 - 12/2022**
Northeastern University, Roux Institute
- Support students using different operating systems to configure environment variables of data science tools
- Collaborate with professor to create and deliver learning materials
- Address student questions and provide feedback on assignments and projects

Software Engineer   **06/2020 - 02/2021**
CareerBuilder Information Technology Co. Ltd., Shanghai, China
- Coordinated and collaborated across 4 international teams to track issues in Application tracking systems.
- Used logging software such as **Scalyr** to identify root causes of various bugs and issues.
- Managed **feature flags service** and release features to different groups of customers using **dark launch**.
- Performed bug fixes, verification, and beta version developer support.
- Managed REST API with **Postman** to test the backend endpoints.

Software Engineer Intern   **05/2019 - 07/2019**
Neusoft Co. Ltd, Shenyang, China
- Designed hospital information databases and deployed **MySQL** database on **AWS RDS**.
- Implemented backend modules of hospital information system using **SpringBoot** and **Mybatis** as backend framework and ORM.
- Established backend web application resource on Server with **AWS S3** and **EC2**, configuring inbound rules and outbound rules of AWS security group.
- Applied **Vue** and JavaScript to implement front-end interface of hospital information system.
- Dockerized front end and pushed image to **Docker** Hub and AWS **Elastic Container Registry**; configured the front end image on ECS with Nginx.
- Utilized **I18N** to internationalize front end and implement **load balancing** with **Nginx**, so the system could be used normally with intense user currency.

ACADEMIC EXPERIENCE

Maine Connectivity Authority, Broadband Access Visualization   **01/2022 – 08/2022**
- Developed API for the Maine Connectivity Authority, utilizing socio-economic and geographical data to visualize the intersection of socio-economic status and access to broadband services.
- Implemented an API to classify the street level geodataframe according to the county border using **GeoPandas** and **Pandas**; created interactive map to demonstrate broadband tiers in various counties across Maine.

Information Retrieval with Web Crawler & Data Analysis   **01/2022 – 08/2022**
- Utilized **Scrapy** to crawl data from cars.com
- Visualized data with Pandas, **Matplotlib**, **Seaborn**, and **Statsmodel** to show hedging rate of specific models.

Data Structures and Algorithms Curriculum Project   **02/2018 – 05/2018**
- Designed and implemented a tourism management system using HTML, CSS, and JavaScript
- Developed an optimized guide module with nodes and edges representing destinations using **Dijkstra's** algorithm