Jinming Zhang

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EDUCATION

Northeastern University   Seattle, WA
Master of Science in Computer Science   *Sep 2022 – May 2024*

University of Washington   Seattle, WA
Bachelor of Science in Physics   *Sep 2018 – June 2022*

WORKING EXPERIENCE

Undergraduate Research Assistant   Oct 2021 – Jun 2022
Axion Dark Matter Experiment, Seattle
- Improved Motor Class that functionalized automated movement for resonate cavity plate using **Python**
- Built a 2-tesla magnetic field by hand winding super-conducting wires and layered with Epoxy
- Troubleshot mechanical flaws including the alignment of turning rods and re-calibrated temperature sensors

System Safety Inspector Intern   Jun 2019 – Sep 2019
Liaoning Information Security Center, Shenyang
- Tested vulnerability inside web apps, databases, and operating systems according to CVE
- Examined qualifications of the physical environment in the data center and server room for other institutions
- Worked in groups, tested 8 different institutions, summarized and presented to the officials

PROJECTS

Food Ordering Application | *Full-Stack Web Application*   Aug 2022 – Oct 2022
- Developed a full-stack web application with **React** for frontend and **Redux** for state management that allows users to order food delivery from multiple restaurants
- Build **RESTful APIs** with **Express.js, Node.js and MongoDB** to transfer data between users and restaurants
- Implement **Passport.js** to achieve user authentications and integrate payments using **Stripe**

Better Than Zillow | *Housing Listing and Searching Application*   Sep 2022 – Dec 2022
- Developed front-end in **HTML/JSP** to create a web application where buyers and dealers can showcase properties.
- Extracted multi-dimension data sources with 79 variables and conducted data cleaning based on their association and uniqueness
- Designed relational models, created ERD and database tables in **MySQL**
- Used **JDBC** as back-end connections, designed management system for admin to implement CRUD operations

University Major Analysis | *Data Visualization Analysis Using R*   Oct 2021 – Dec 2021
- Performed analysis to compare universities' majors across different features including the level of degree, gender, earning, and employment rate
- Visualized principal components using **dplyr** and **ggplot** and demonstrated the correspondence of vectors
- Built an interactive platform based on **shinyapps.io** in **R**

TECHNICAL SKILLS

Languages: Java(Proficient), Python, SQL, JavaScript, HTML/CSS, R
Frameworks: React, Node.js, jQuery, Redux, Bootstrap
Database: MySQL, MongoDB, SQL Server, Oracle SQL, XML Query
Platform and Tools: Git, Docker, Google Cloud Platform, Jupyter