

Brooklyn Zhu

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EDUCATION

University of Washington, Paul G Allen School of Computer Science

Seattle, WA

B.S. Computer Science

June 2024

Relevant Coursework: Data Structures and Algorithms (Java), Software Design/Implementation (Java),

Hardware/Software (C), Data Management (SQL), Command-Line Interface (Linux), Discrete Math, Multivariable Calculus, Android Interaction Programming (Java/XML), Software Engineering, Artificial Intelligence

Language: Java, Python, SQL, JavaScript, CSS/HTML, Ruby, GraphQL, Bash, TypeScript, C, Go, Rust, Unix Shell

Softwares/Framework: Angular/React, Jira, XML, Docker, SpringBoot, Bamboo, jQuery, CloudForge, Node.js, Git, Azure, Liquibase, Splunk, DBVisualizer, Tableau, Figma, AWS, Jira, MongoDB, DynamoDB

Methodologies/Skills: Agile Development, Scrum

WORK EXPERIENCE

Liberty Mutual

Boston, MA

Software Engineering Intern

Jun 2023 – Aug 2023

- Developed an MDM enricher using **Python** to standardize and enhance data enrichment processes integral to accurate and predicative scoring models
- Conducted extensive testing of the MDM Broker Enricher system in the **AWS** environment to ensure seamless operation and scalability of the software component in cloud infrastructure
- Implemented sum aggregation on a data intake form UI using **JavaScript**, improving data processing efficiency
- Enhanced **AWS Step Function** by integrating aggregated fields using **JSON**, improving scoring accuracy
- Conducted comprehensive testing of the new feature in the AWS environment

Liberty Mutual

Seattle, WA

Software Engineering Intern

Jun 2022 – Sept 2022

- Built **REST APIs** that served data to **Angular** and **TypeScript** supported front-end based on dynamic user inputs
- Designed reliable and efficient databases through stored procedures and defined functions
- Configured and connected database to SpringBoot application through Liquibase
- Implemented CRUD logic for data manipulation using **Java**, developed front-end web pages with **HTML**, **CSS**, and **TypeScript**

Google

Remote

Computer Science Summer Institute

Jun 2020 – Aug 2020

- Selected as one of 300 participants nationwide for the rigorous 3-week software development program aimed at providing a comprehensive introduction to computer science, facilitated by Google
- Learned and applied core programming concepts to create robust and interactive applications in JavaScript

PROJECTS

Partner Change Service | Liberty Mutual Intern Project

- Internal tool that allows business clients to be informed 90 days prior to incoming product and policy changes
- Designed and Implemented REST API endpoints, user interface, and database configuration using **Java**, **SQL**, **CSS/HTML** and **SpringBoot**

Experimental Menu Navigation System| CSE 340 Project

- Developed a mobile application using **Java**, **Android SDK**, and **XML**, featuring three menu views (Linear, Pie, Bar) to study user interactions and understand navigation preferences.
- Conducted and analyzed user testing across 9 experimental conditions, generating insights from 324+ data points, informing user-centric design

LemmeKnow Project | 403 Software Engineering Project

- Full-stack group activity planning tool with **SvelteKit**, focusing on frontend architecture and seamless integration with **Go** and **DynamoDB** backend services.
- Implemented **RESTful APIs** and integrated with backend systems built in **Go** and **DynamoDB**
- Led frontend development, driving consistent code quality through **unit testing**, **code reviews**, and modern **CI/CD pipelines**, simulating startup workflows

EXTRACURRICULARS

UW College Loops (Girls Who Code) Vice President, Events Coordinator

- Strategized and executed event layouts, driving audience engagement through targeted market research and tailored communication strategies, resulting in a 30% increase in event attendance and participant retention

Association of Computing Machinery (ACM) Communications/Recruitment Director

- Orchestrated innovative communication strategies at ACM, translating member insights into a 40% leap in engagement, invigorating the organization's community dynamic