

Sky Jiang

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EDUCATION

Northeastern University, Seattle, Washington **GPA: 3.83** Spring 2022-December 2023 (Expected)

Master's in Computer Science

Coursework: Database Management, Programming Design Paradigm, Mobile Application Development, Computer Networking, Software Engineering

The University of Texas at Dallas, Dallas, TX **GPA: 3.74** August 2019-August 2021

B.S. in Computer Science

Coursework: Java/C++ Programming, Linear Algebra, Probability Theory, Data Structure and Algorithm, Database, Operation Systems, Computer Graphics, Electronic Circuits, Object-Oriented Design

WORK EXPERIENCE

Software Developer Intern - Amazon(Newark, US) May 2023-August 2023

- Work in the Audible Digital Asset Management team and utilized **Java** to implement testing strategies for new and existing code, including **Unit Tests**, and performance tests, to ensure the high quality and robustness of the systems and services.
- Developed full stack internal tool using **React, JavaScript, Java, Redux, AWS SWF, AWS SQS, AWS Lambda, and AWS S3**.
- Collaborated with other developers and teams to integrate new code and features with existing systems and services, using tools such as version control systems and continuous integration and delivery(**CI/CD**) pipelines.
- Developed code for various aspects of back-end development, such as data processing, storage, caching, and retrieval, using techniques such as **Object-oriented** programming and **Design patterns**.

Software Developer - RAIR Tech May 2021-July 2021

- Worked in a team of 6 and was responsible for designing and implementing Smart Contract by using **Truffle**, and connecting the Smart Contract to the back-end from **Node.js**.
- Designed and created stable **RESTful APIs** to extract, load, transform, and retrieve data.
- Developed and deployed Smart Contracts to the blockchain and helped the team to decrease the testing time by **5.6%**.
- Evaluated minting test, collect the customer information and order details, and make them visible in **MongoDB**.
- Developed **MongoDB** queries to validate the balance between source files from branches and records in headquarters.
- Defined and improved the **Java** and **JavaScript** algorithms on the automatic trading model to reduce the response and processing time by **2%**.

Teaching Assistant at Northeastern University September 2022-Present

- Teaching assistant on Database management 5200.
- Help students understand their **MySQL**, **Java Servlet**, and **AJAX** questions and concepts.
- Help the professor grade homework and exams.

PERSONAL PROJECTS

Twitch+: Web Service Development-User Like Collection

Front End:

- Developed an interactive web page for users to search twitch resources such as streams, videos, and clips using **HTML, CSS, JavaScript, and AJAX**.
- Supported login/logout and favorite collection.

Back End:

- Created three Java servlets with **RESTful APIs** to handle **HTTP** requests and responses.
- Built **MySQL** database on Amazon RDS to store real business data from Ticketmaster API.
- Designed algorithms (e.g., content-based recommendation) to implement business recommendations.
- Deployed the service to **AWS EC2** for better stability.

Shopping and Ordering system based on Java Spring and Hibernate

- Built a web application based on **Spring MVC** to support item search and listing using dependency injection, inversion of control **REST API**, etc.
- Implemented security workflow via in-memory and JDBC authentication provided by Spring Security.
- Utilized Hibernate to provide better support for database operations.
- Developed a Spring Web Flow to support item ordering.

SKILLS

Programming Languages: **Java, JavaScript, TypeScript, HTML, CSS, C++, Solidity, Perl, Python**

Databases/Cloud: **MongoDB, MySQL, AWS EC2, AWS SWF, AWS SQS, AWS Lambda, AWS S3, DynamoDB, SNS**

Tools/Frameworks: **React, Redux, Java Servlet, Spring, Spring MVC, Tomcat, Ant Design, Github, Git**