

# Chencheng Yi

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## EDUCATION

### Northeastern University

*Master of Science in Computer Science; GPA: 4.0/4.0*

August 2021 – May 2024(expected)

*Boston, MA*

### Shanghai Conservatory of Music

*Bachelor of Arts in Arts Administration*

August 2014 – May 2018

*Shanghai, China*

## TECHNICAL SKILLS

**Languages:** Java, Typescript, Javascript, Python, C, Express, HTML/CSS

**Frameworks:** React, Redux, Node.js, Next.js, JUnit, Spring Cloud, Spring Boot, Dojo, Lit

**Tools:** Kubernetes, Docker, Nginx, Firebase, GCP, AWS, Git, MongoDB, MySQL, Hibernate, Linux, Windows, Android Studio, AWS Lambda, DynamoDB

## EXPERIENCE

### Amazon

*Software Engineer Intern*

June 2023 – August 2023

*Boston, MA*

- Developed an advanced aging inventory tracking tool, achieving exceptional results, including cost savings exceeding **\$3 million** and a remarkable reduction of **10,000 working hours**. Empowered the operations team to efficiently monitor and manage aging inventory across a network of 10+ fulfillment centers.
- Utilized **Java** and **AWS CDK** to build a robust and scalable architecture for the aging inventory tracking tool, optimizing performance and facilitating future growth. This included seamlessly integrating with AWS services by employing **4 lambda functions** to orchestrate the processing flow, effectively utilized **AWS Queue Service** for precise control of data payload, and integrated **EventBridge** to trigger monthly events, automating critical processes and ensuring timely updates
- Employed TypeScript to create a sophisticated front-end display with seamless pagination and an array of over 5 meticulously designed filters, tailored to meet diverse query requirements.

### MathWorks

*Software Engineer Intern*

January 2023 – May 2023

*Natick, MA*

- Spearheaded the development of **5 new sidebar context menu features** for cross-platform Matlab applications using **Javascript, Dojo, and CSS**. These features have been used by over **4 million users**. By enhancing the Matlab sidebar functionality, they have contributed to a **13%** improvement in user experience.
- Led the effort to replace 30 PNG icons with SVG format across multiple Matlab platforms. This initiative resulted in a **30%** improvement in **crossing system compatibility and resolution performance**, as well as a significant aesthetic upgrade to the outlook of numerous Matlab applications.
- Ensured the high quality of new features by implementing rigorous unit tests and effectively resolving **over 10** bugs. Through this attention to detail, contributed to the successful delivery of reliable software solutions.

### Valitee

*Software Development Intern*

May 2022 – August 2022

*Guiyang, China*

- Collaborated closely with the UI/UX team to successfully develop over **50** frontend components and backend applications using **React.js, Typescript, and Node.js**, thereby contributing to the growth of a thriving Web3 community with over **5000** users.
- Revamped and implemented two new database schemas, resolved existing database errors in Firebase, and enhanced the user id retrieval algorithm by leveraging WebSocket technology. This optimization resulted in a notable **20%** improvement in search accuracy.
- Successfully implemented and integrated more than five new features, including **User Guidance, User Status, and Avatar Background**, utilizing Node.js and React.js. These additions proved highly effective, attracting a **10%** increase in user participation within the Valitee community.

### Northeastern University

*Teaching Assistant - Data Structures and Computer System*

January 2022 – May 2022

*Boston, MA*

- Graded students' homework and helped 30+ students with debugging and conceptual questions during office hours
- Collaborated with professors and 3 TAs to design and implemented coding homework with **C** under **Linux** environment, including **Linux Shell and DFS/BFS implementation**, for 40+ students