

# Yunmu Shu

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## EDUCATION

<b>Northeastern University</b> <i>Master of Science in Computer Science (GPA: 4.0/4.0)</i>	Boston, MA Sep. 2022 – May. 2025
<b>Northeastern University</b> <i>Master of Science in Financial Mathematics</i>	Boston, MA Sep. 2021 – Aug. 2022
<b>Guangdong University of Foreign Studies</b> <i>Bachelor of Science in Economics</i>	Guangzhou, Guangdong Sep. 2017 – Jun. 2021

## EXPERIENCE

<b>Software Developer Intern</b> <i>Dassault Systèmes</i> <ul style="list-style-type: none"><li>Assisted the development of quality document control solutions, delivering tailored document management systems to clients compliant with diverse regulatory standards</li><li>Leveraged Java <b>Servlet</b> to architect endpoints in NuoDB by MQL for robust data operations, implementing caching strategies to reduce latency by 55% and minimize excessive database requests</li><li>Utilized <b>React.js</b> and internal WebUI components for rendering document data to enhance smooth user experience</li><li>Developed programs using WinSCP in <b>Linux</b> environment to convert file category configurations from up to 7 different languages to JSON format for the Controlled Document Management component</li></ul>	Feb. 2024 – Jun. 2024 Waltham, MA
<b>Software Developer Intern</b> <i>Rapid Micro Biosystemes(NASDAQ: RPID)</i> <ul style="list-style-type: none"><li>Proposed and discussed various database schema update options with team members, finalizing a solution that improved scalability and performance by adding over <b>120%</b> more fields.</li><li>Refactored legacy <b>PHP</b> code by introducing object-oriented principles, increasing maintainability and readability</li><li>Set up <b>Apache</b> server locally to simulate production environment for easier development and smooth transitions</li><li>Migrated <b>MySQL</b> data from the server to the local environment to improve development efficiency</li><li>Configured virtual host to test the updated application and used shell scripts for automating database updates and backups</li></ul>	Jun. 2024 – Aug. 2024 Lexington, MA
<b>Software Developer Intern</b> <i>Tatfook Technology Co., Ltd</i> <ul style="list-style-type: none"><li>Collaborated with backend developers to develop <b>RESTful</b> APIs using <b>Koa2</b> and <b>TypeORM</b> for efficient management of plant observation data, leveraging factory patterns to cohesively generate objects</li><li>Boosted user feedback by <b>60%</b> through the implementation of a reporting dashboard with an integrated Modal using <b>Next.js</b> for its server-side rendering and <b>Axios</b></li><li>Conducted API testing using <b>Postman</b> to validate functionality and improve code test coverage of different endpoints.</li><li>Implemented CI/CD pipelines utilizing <b>GitLab</b> for code uploads and <b>Jenkins</b> for seamless deployment</li></ul>	May. 2023 – Aug. 2023

## PROJECTS

<b>Husky Town</b> <ul style="list-style-type: none"><li>Collaborated with team members to develop a pixel-based game in <b>Dlang</b> featuring real-time chat functionality and player render for multiple user based on <b>DUB</b> to manage project</li><li>Designed both client and server-side TCP communication modules using <b>Socket</b> programming techniques</li><li>Integrated multi-threading for efficient game rendering and chat to further enhance performance and interactivity</li><li>Implemented packet serialization to increase packet capacity by <b>40%</b>, resulting in smoother character rendering</li></ul>	Oct. 2023 – Dec. 2023
<b>GeeCache</b> <ul style="list-style-type: none"><li>Implemented a distributed caching system by developing both local cache and HTTP-based distributed cache, supporting <b>Least Recently Used</b> caching strategy in GoLang</li><li>Utilized Mutex Lock to prevent cache stampedes and ensure data integrity</li><li>Integrated consistent hashing to select nodes, ensuring load balancing and efficient cache distribution</li><li>Optimized inter-node communication using <b>protobuf</b> for efficient binary data exchange</li></ul>	Jun. 2024 – Jul. 2024
<b>Campus Stray Animal Monitor</b> <ul style="list-style-type: none"><li>Employed <b>SpringBoot3</b> and <b>Hibernate</b> to proficiently map data into objects, streamlining data operations by 34%</li><li>Leveraged <b>React.js</b> and implemented <b>useContext</b> to develop a single-page application, reducing 35% page reloads time</li><li>Validated user credentials and generated <b>JWT</b> tokens, providing service for users with different permissions</li></ul>	Jan. 2023 – Feb. 2023

## TECHNICAL SKILLS

Programming Languages:	Java, C/C++, JavaScript, TypeScript, Go, SQL, Python, Ruby
Frameworks:	Springboot, J2EE, React, Next.js, Express.js, Node.js, Django
Databases:	MySQL, Redis, MongoDB, PostgreSQL, DynamoDB, Hibernate
Tools:	AWS, Docker, Linux, Postman, Nginx, Git, JUnit, Maven, Log4j