

Yunmu Shu

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EDUCATION

Northeastern University <i>Master of Science in Computer Science (GPA: 3.9/4.0)</i>	Boston, MA <i>Sep. 2022 – Aug. 2025</i>
Northeastern University <i>Master of Science in Financial Mathematics</i>	Boston, MA <i>Sep. 2021 – Aug. 2022</i>
Guangdong University of Foreign Studies <i>Bachelor of Science in Economics</i>	Guangzhou, Guangdong <i>Sep. 2017 – Jun. 2021</i>

EXPERIENCE

Software Developer Intern <i>Dassault Systèmes</i> <ul style="list-style-type: none">Assisted the development of quality document control solutions, delivering tailored document management systems to clients compliant with diverse regulatory standardsLeveraged Java Servlet to architect endpoints in NuoDB by MQL for robust data operations, implementing caching strategies to reduce latency by 55% and minimize excessive database requestsDeveloped programs using WinSCP in Linux environment to convert file category configurations from up to 7 different languages to JSON format for the Controlled Document Management component	Feb. 2024 – Jun. 2024 Waltham, MA
Software Developer Intern <i>First Help Financial</i> <ul style="list-style-type: none">Contributed to the development of a middleware framework supported by Spring REST API and AWS ElastiCache for Redis for caching and replaying of requests to provide service connect external and internal applicationDesigned a local event within the Angular.js Decision Lender application to extract and map property through AWS Kinesis, facilitating loan decisioning by collecting relevant data to the backend API for evaluationEnhanced a Python-based loan structure library for automating the restructuring of loan application itemizationCoordinated with senior engineers and QA teams using agile methodologies and JIRA for project management	Jan. 2025 – Jun. 2025 Needham, MA
Software Developer Intern <i>Rapid Micro Biosystemes(NASDAQ: RPID)</i> <ul style="list-style-type: none">Proposed and discussed various database schema update options with team members, finalizing a solution that improved scalability and performance by adding over 120% more fields.Refactored legacy PHP code by introducing object-oriented principles, increasing maintainability and readabilitySet up Apache server locally to simulate production environment for easier development and smooth transitionsMigrated MySQL data from the server to the local environment to improve development efficiencyConfigured virtual host to test the updated application and used shell scripts for automating database updates and backups	Jun. 2024 – Aug. 2024 Lexington, MA
Software Developer Intern <i>Tatfook Technology Co., Ltd</i> <ul style="list-style-type: none">Collaborated with backend developers to develop RESTful APIs using Koa2 and TypeORM for efficient management of plant observation data, leveraging factory patterns to cohesively generate objectsImproved user feedback by 60% by developing a reporting dashboard with an integrated Modal, leveraging Next.js for server-side rendering and Axios for data handlingImplemented CI/CD pipelines utilizing GitLab for code uploads and Jenkins for seamless deployment	May. 2023 – Aug. 2023

PROJECTS

Tripadvisor App <ul style="list-style-type: none">Developed a Tripadvisor-like application, using Redis as middleware to optimize and implement key functionalitiesOptimized the flash sale feature by implementing read-write separation, utilizing Lua scripts to ensure atomicity of operations and stream Message Queue for order processing, reducing API response time to tens of millisecondsDesigned user like/follow features with Zset and check-in functionality using Bitmap for best practice	Oct. 2024 – Nov. 2024
GeeCache <ul style="list-style-type: none">Implemented a distributed caching system in GoLang, developing both local in-memory cache and HTTP-based cache with Least Recently Used strategy, and optimized inter-node communication using protobuf.Employed Mutex locks to prevent cache breakdown and ensure data consistency under concurrent accessIntegrated consistent hashing to select nodes, ensuring load balancing and efficient cache distribution	Jun. 2024 – Jul. 2024

TECHNICAL SKILLS

Programming Languages:	Java, C/C++, Go, JavaScript, TypeScript, SQL, Python, Ruby
Frameworks:	Springboot, J2EE, React.js, Next.js, Express.js, Node.js, Django
Databases:	MySQL, Redis, MongoDB, PostgreSQL, DynamoDB, Hibernate
Tools:	AWS, Docker, Postman, Nginx, Git, JUnit, Jmeter, Maven, SLF4J