

# Jiajun Zheng

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## EDUCATION

<b>Northeastern University</b>	<b>Boston, MA</b>
Master of Science in Software Engineering Systems, GPA: 4.0/4.0	Sep 2024 - Expected Jun 2026
<b>Shijiazhuang Tiedao University</b>	<b>Hebei, China</b>
Bachelor of Engineering in Computer Science and Technology	Sep 2020 - Jun 2024

## TECHNICAL SKILLS

**Programming Languages:** Java, Typescript, JavaScript, SQL  
**Frameworks:** Spring Boot, Spring Security, Mybatis, Hibernate, JUnit, JMeter, React, Node.js  
**Databases & Tools:** Maven, Gradle, MongoDB, Redis, RabbitMQ, Elasticsearch, MinIO, MySQL, PostgreSQL, Docker, Git, GCP, AWS, LangChain

## WORK EXPERIENCE

<b>LinkCM Technologies Co., Ltd</b>	<b>Guangdong, China</b>
Software Development Intern	Aug 2023 - Sep 2023
<ul style="list-style-type: none"><li>Developed a real-time population distribution map using JavaScript and Vue CLI, seamlessly integrating CRUD operations to dynamically display up-to-date movement data and provide instant insights</li><li>Improved UI/UX by optimizing layout and responsiveness, ensuring seamless component alignment</li><li>Achieved 95% task completion within deadlines, significantly enhancing front-end performance while actively supporting back-end integration efforts to streamline overall development processes</li></ul>	
<b>Guangzhou Urban Planning Survey and Design Research Institute</b>	<b>Guangdong, China</b>
Software Development Intern	Jul 2022 - Aug 2022
<ul style="list-style-type: none"><li>Integrated Attribute-Based Access Control (ABAC) within a Spring Security + OAuth2 microservices platform using Java, unifying user authentication and authorization under a flexible policy model.</li><li>Implemented robust and fine-grained access control rules by carefully mapping user roles and attributes, ensuring strict resource-level access checks are enforced</li><li>Enhanced the platform's security by diligently configuring comprehensive role-based and attribute-based policies, effectively preventing unauthorized access and improving regulatory compliance</li><li>Improved security audit coverage to 95% through meticulous role and attribute mapping</li></ul>	

## PROJECTS

<b>SocialAI: an AI based Social Network</b>
<ul style="list-style-type: none"><li>Designed and implemented a social network web application with React JS</li><li>Used OpenAI's Dall-E 3 to assist users to create and update posts</li><li>Improved the authentication using token based registration/login/logout flow with React Router v4 and server-side user authentication with JWT</li><li>Launched a scalable web service in Go to handle posts and deployed to Google App Engine</li><li>Used Elasticsearch (deployed to GCE) to provide search functions such that users can search recent posts and list personal posts</li></ul>
<b>Next AI Demo: An interactive PDF-based AI Assistant</b>
<ul style="list-style-type: none"><li>Built an interactive conversational UI using React and Ant Design, allowing users to upload and chat with PDF files in real-time</li><li>Leveraged OpenAI's gpt-3.5-turbo/gpt-4 API and Langchain to support intelligent document interpretation and query answering</li><li>Developed RESTful APIs with Express.js and Node.js, optimized for high-throughput request handling</li><li>Employed an in-memory vector store to cache document embeddings, enhancing retrieval efficiency</li><li>Implemented a document-processing pipeline supporting file splitting, storage, and structured responses</li></ul>