

JIE CHENG

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EDUCATION

New York University
Master of Computer Engineering

August 2023 - May 2025

GPA: 3.67/4.00

University of Electronic Science and Technology of China
Bachelor of Engineering in Electrical and Electronic Engineering.

August 2019 - June 2023

GPA: 3.49/4.00

SKILLS

- Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS
- Frameworks: React.js, Express.js, Vue.js, Node.js, Next.js, Spring Boot, Mybatis
- Databases: MySQL, MongoDB, Redis, AWS, Aliyun OSS
- Tools: Docker, Git, Swagger, Maven, Junit, Linux, Postman, Shell, VS Code, IntelliJ

PROJECTS

Blog Application — *Spring Boot, Redis, MySQL, Vue.js, JWT*

- Designed the UI with **Vue.js** and **Element Plus** components, improving the efficiency by 30%
- Constructed the back-end with **Spring Boot 3**, managed **RESTful APIs** with **Swagger**, and implemented paging query with **PageHelper**, improving user experience
- Ensured data security using **JWT** and **Spring Interceptor** and boosted data retrieval efficiency using **Redis** for storage
- Designed user-category-article relational database with **MySQL** and integrated **Aliyun OSS** for file management system
- Created a dynamic dashboard to display articles and categories for different users

Pernotes Personal Notes App (<https://pernotes.netlify.app/>) — *React.js, TypeScript, Next.js*

- Developed a full stack web application using **Next.js** as the React framework
- Implemented **GitHub OAuth** and **Google OAuth** for authentication and user login systems with **Clerk** user management platform
- Employed **Convex** as both database system and back-end functions and Utilized **Edgestore** for file and image storage systems, enabling users to publish their notes online
- Integrated **BlockNote** hook as the rich text editor, supporting advanced features including segmentation, prompts and image uploading for users
- Deployed the website on Netlify

Course Management Portal (MERN) — *React.js, Node.js, MongoDB, Express.js*

- Created intuitive interfaces with **React.js** and **tailwind CSS** and implemented page navigation with **React Router** between different sections
- Integrated **Google OAuth2** for authentication and utilized **JWT** for enhanced security, ensuring identity authentication for students and instructors
- Utilized **Express.js** to implement the back-end system and **Axios** to handle API requests
- Built database with **Mongoose** for CRUD operations and employed **cors** middleware to address cross-origin resource sharing issues