

MI LUO

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EDUCATION

University of Delaware, Newark, DE

Feb 2023 – Dec 2024 (*Expected*)

M.S. in Computer Science

GPA: 3.83

Coursework: Database, Artificial intelligent, Computer Network, Cybersecurity, Deep learning, Compiler

Hubei University of Economic, Wuhan, CN

Sep 2018 - Jun 2022

B.S. in Internet of Things Engineering

Coursework: Data Structure and Algorithm, Object-Oriented Programming, Java EE, Operating System

EXPERIENCE

SciQuel

Feb 2024 - Present

Software developer Intern

(remote) 125 Western Ave. Allston, MA 02163

- Helped maintained the SciQuel database using MongoDB, which stores articles and user data.
- Developed backend APIs such as password retrieval using Node.js and designed Pages and components for the mobile app using Figma and React-Native within a collaborative team environment.

PROJECTS

Travel Booking Website

JavaScript, Node.js, Express, MongoDB, Pug

- Developed a robust REST API following the CRUD approach using Javascript(**Node.js**, **Express**), implemented responsive user interface using HTML/CSS (Pug). MongoDB and Mongoose for efficient data management,
- Implemented features including JWT-based login system with Nodemailer for secure authentication, Mapbox API for interactive tour location displays, and Stripe API for transaction processing.
- Conducted API validation through Postman and deployed on Heroku with CI/CD pipeline.

Real Estate Website

Python, Django, Bootstrap, and PostgreSQL

- Engineered a real estate platform using Django and Bootstrap for user interface, Postgresql databases for strategic schema planning, featuring advanced administrative capabilities.
- Reduced query pressure of the database by using Redis as Cache. Imporved User Search experience via Inverted Index search(ElasticSearch).
- Deployed on Digital Ocean using Gunicorn and Nginx.

Mall System with 3D Fitting Room

Native php, jQuery, Three.js, MySQL

- Led a team of 4 developers to build an innovative mall system with virtual fitting room, earning provincial-level award in the Chinese Collegiate Computing Competition.
- Engineered a 3D scanning system to capture user body dimensions, crafted virtual models using Blender and Three.js.
- Constructed the system using native PHP and jQuery, utilized MySQL for robust database management, implemented an MVC architectural framework for efficient request handling.

Real-Time Chat Application Development

JavaScript, Node.js, React.js

- Developed a real-time chat application using NodeJS, ReactJS, and ChatEngine.io, featuring user authentication, real-time messaging, and media sharing capabilities.

TECHNICAL SKILLS

Programming Languages Python, JavaScript/TypeScript, Java, Php, C/C++, SQL, HTML/CSS

Frameworks NodeJS, Express, Django, React, Bootstrap, jQuery

Database and Tools MongoDB, Atlas, PostgreSQL, pgAdmin4, MySQL, Oracle, AWS, Git, Postman