

JOSEPH LIN

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Education

Rutgers University

Bachelor of Science in Computer Science, Undergraduate Certificate in Packaging Engineering

New Brunswick, NJ

Graduation Year: 2025

Relevant Courses

Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Operating Systems, Machine Learning, Software Methodology, Internet Technology, Computer Architecture, CAD for Packaging Engineering

Experience

Horizon Blue Cross Blue Shield of New Jersey

June 2024 - Dec 2024

Database Engineer Intern

Newark, NJ

- Streamlined database versioning and deployment workflows with **SQL Server Data Tools** integrated with **Git-based CI/CD pipelines**, cutting manual deployment errors by **40%**
- Boosted **SQL Server** performance by **30%** through **T-SQL query optimization** and collaborative enhancements to database architecture and server configurations
- Architected **SQL-based backups** and **recovery strategies**, mitigating data loss risk and expediting recovery time by **85%** during system failures
- Developed and deployed a dynamic **data visualization dashboard** using **Figma** and **Tableau**, providing real-time analytics on resource allocations and server outage metrics to the CIO

Rutgers Blueprint

Sep 2023 - Dec 2023

Backend Software Engineering Fellow

New Brunswick, NJ

- Collaborated and built a scalable **RESTful API** with **Python** and **Flask**, enabling secure user authentication for an application built by Rutgers Blueprint's Frontend Engineering Team
- Implemented **JWT-based authentication** and **authorization**, reducing unauthorized access incidents and strengthening overall application security and reliability
- Structured and configured a secure **SQLite database** to manage user credentials and key authentication details for login processes, improving data integrity and supporting system-wide scalability

Technical Projects

Chinese Food Ordering Web App | JavaScript, React, Next.js, Tailwind CSS, Hygraph

- Built a web application with **React**, **Next.js**, and **JavaScript** that allows customers to place online food orders for a family-owned Chinese restaurant
- Configured **Hygraph CMS** with **GraphQL APIs** to dynamically store customer orders, ensuring accurate up-to-date information during the ordering process
- Designed a responsive interface with **Tailwind CSS** that adapts to mobile and desktop devices, making the ordering process accessible for customers

Online Travel Reservation System | Java, JDBC, MySQL, HTML/CSS

- Collaborated on a team of 4 to create a **full-stack** web application using **Java**, **JDBC**, and **MySQL** for users to handle travel details and manage bookings, improving accessibility to user flight information
- Devised a **normalized MySQL** relational schema via **ER modeling**, ensuring accurate and consistent booking information with all user reservations
- Engineered an intuitive frontend using **HTML** and **CSS** that streamlined flight booking processes and improved user interaction efficiency

NBA Stats Tracker – Backend Implementation | Java, Spring Boot, PostgreSQL

- Constructed a **RESTful API** to manage **150+** NBA player statistics, providing up-to-date performance data for player analysis and simplifying external data access
- Implemented a backend system with **PostgreSQL** using **Spring Data JPA** that handles the retrieval of relevant statistics, enabling accurate integration with external applications

Technical Skills

Programming Languages: Python, Java, JavaScript, SQL, C/C++, MATLAB, HTML/CSS

Databases: MySQL, PostgreSQL, SQLite, SQL Server, MongoDB

Frameworks & Libraries: React, Next.js, Tailwind CSS, Bootstrap, Flask, Pandas, NumPy, Matplotlib, PyGame, JavaFX, JUnit, Spring Boot

Tools: Git, GitHub, VS Code, IntelliJ, Eclipse, Android Studio, Figma, Tableau, SharePoint, Adobe Photoshop, Microsoft Excel, SolidWorks