Mark Han

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EDUCATION

Binghamton University, SUNY | Thomas J. Watson College of Engineering and Applied Science
Bachelor of Science in Computer Science   **Expected May 2024**
Cumulative GPA: 3.48 / 4.00
Achievements: Dean's List: Fall 2020, Spring 2021, Upsilon Pi Epsilon Computer Science Honor Society
Relevant Coursework: Programming & Hardware Fundamentals, Architecture from Programmer's Perspective, Advanced Computer Architecture, Programming with Objects & Data Structures, Data Structures and Algorithms, Design & Analysis of Algorithms, High Performance Computing, Database Systems

Queens College, CUNY
Bachelor of Science in Computer Science   **August 2019 - August 2020**
Major GPA: 4.00 | Cumulative GPA: 3.75 | Dean's List: Fall 2019, Spring 2020

TECHNICAL SKILLS

Languages: Java, C, C++, SQL, PL/SQL, HTML, CSS, JavaScript, Typescript, Python, Assembly
Frameworks: Angular, Spring (MVC, AOP, Security, REST, Boot, Data JPA), Hibernate, Bootstrap
Tools and Technologies: Git, Eclipse, AWS, MongoDB, MySQL, Oracle, JDBC, Maven, Thymeleaf, Linux, Postman

PROJECT EXPERIENCE

E-commerce Website - *Angular, Java Spring Boot, MySQL, AWS*
• Developed a Full stack E-commerce website with Angular, Spring Boot and deployed using AWS
• Implemented features such as Stripe payment processing, user authentication, order history/tracking, search bar, cart status
• Performed custom query operations on the MySQL database using Spring Data JPA and Hibernate
• Designed REST APIs with Spring Data REST and performed REST client calls between Angular and Spring Boot
• Implemented user authentication using Spring Security and JWT to allow users to view order history and details

Employee Manager - *Java, Spring Framework, MySQL, Hibernate, Bootstrap, Thymeleaf*
• Developed a Spring MVC and Hibernate CRUD project that allows users to manage employee information
• Utilized Hibernate to map POJOs to SQL entities and develop custom queries using the Hibernate Query Language
• Created Spring MVC controllers to process web requests
• Leveraged Thymeleaf and Bootstrap to create a modern server-side view template
• Implemented Spring Security for user authentication, user registration, and custom roles

Music Social Network - *C++ -https://github.com/markhan01/Music-Social-Network*
• Collaborated with two peers on an application recommending songs based on a user's social connections
• Implemented a binary search tree and graph to store user information and friendships between users
• Designed a BFS graph algorithm to determine if a user is within another user's social network
• Built a max heap data structure to extract popular songs within a users' social network

Student Registration System – *Java. Oracle PL/SQL - https://github.com/markhan01/Student-Registration-System*
• Built a student registration system using stored PL/SQL procedures executed using Java Database Connectivity
• Utilized relational database tables to create complex queries based on several parameters
• Created a CLI using Java that executes procedures such as creating/enrolling students, checking prerequisites, and more

EXTRACURRICULAR ACTIVITIES

CodePath Technical Prep Course
• Improved technical problem-solving skills by completing twelve weeks of CodePath's online learning
• Engaged with a group of peers and a mentor to solve technical coding problems through peer programming

Korean Community Services Summer School Teaching Assist
• Volunteered help to teachers in developing math and reading skills of elementary and middle school students
• Tutored students by teaching and reinforcing homework material