# 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