Bohan Yang

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SKILLS

- Programming Languages: Java, Python, HTML, CSS, JavaScript, Motoko, SQL, NoSQL, MATLAB
- Technology: AWS, Git, GitHub, Bash, Linux, MySQL, MongoDB Atlas, Heroku, Blockchain, Django, React, REST, Maven

BACKGROUND

- *Active U.S. Government Secret Clearance.* *May 2022*
- *U.S. Air Force Reserve, Air Transportation, Staff Sergeant* *Sep 2021 – Present*
- *U.S. Army, Active Duty, Infantry, Sergeant* *May 2016 – Sep 2020*

EDUCATION

University of Washington --- *B.S. in Computer Science* *Sep 2020 – Jun 2023*
Cumulative GPA: 3.84 (Dean's List 7 of 8 quarters 2020-2023)
Relevant Courses: Object-Oriented Programming (Java), Data Structure, Algorithm, Intro of Artificial Intelligence, Natural Language Processing (Python), Operating System (C), Machine Learning (Python), Database Design (SQL), Computational World (JavaScript)

St. Martin University --- *Certificate in Microsoft Software & System Academy (MSSA)* *May 2020 – Aug 2020*
Cumulative GPA: 3.89
Relevant Courses: Computing Tech (Python), App Dev (C#), SQL & App Dev (SQL), Dev ASP.NET Web Apps(.NET), Dev Cloud Solutions (Azure)

CERTIFICATES

AWS Certified Solutions Architect - Associate exam (SAA-C03).
Java Foundations 1Z0-811, Oracle.
Full-Stack Web Development Bootcamp, Udemy.

MTA Exam 98-361, Software Development Fundamentals, Microsoft.
The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert, Udemy.

PROJECT

Shopping Cart

- Created a feature-rich Ecommerce web application using **Spring MVC**, **Hibernate**, **Java,** and **Maven**, incorporating user registration, authentication, and role-based experiences for both Users and Admins using **Spring** Security.
- Integrated **JSP** (JavaServer Page) templates to create a dynamic shopping experience and checkout process with **Spring WebFlow**, guiding users through order, shipping, and billing, while providing cancellation and thank you pages.
- Utilized **Bootstrap** for front-end design, **Apache Tomcat Server** for hosting, and **H2 Database for in-memory data storage**, demonstrating proficiency in full-stack development and enhancing user interaction.

Django Learning Management System (LMS)

- Collaborated on a robust LMS using **Django Web Framework**, integrating technologies such as automated grading, dynamic quizzes, and PDF generation to create an interactive educational environment.
- Engineered an assessment mechanism that harnessed the capabilities of **Python** and **PostgreSQL**, automating grading processes and providing metrics for student performance.
- Provided protection against **SQL injection**, **cross-site-scripting (XSS)**, **cross-site request forgery (CSRF)**, and clickjacking while closing collaboration with frontend developers led to seamless integration between frontend and backend, resulting in cohesive user interface.

Pathfinding (Custom maze solver)

- Developed a **GUI** (graphical user interface) using **Java** that enables users to create and visualize graphs. Users can customize start and end point to observe how the selected algorithms navigate through the graph to find the optimal path.
- Implemented several well-known pathfinding algorithms, such as **Uniform Cost Search** (a variant of Dijkstra's algorithm), **A* search**, and **Greedy Best-First Search.**
- Provided metrics like execution time, path length, and number of expanded nodes, enabling users to evaluate the efficiency of different algorithms. Served as an educational tool to understand and compare the behavior of different pathfinding algorithms.

WORK EXPERIENCE

Course Facilitator Tacoma, WA
University of Washington *June 2022 – June 2023*

- Facilitated over **50 students** in senior year that providing help to fellow students taking "Data Structure" and "Algorithm Design" courses that develop **team-development strategies** by creating worksheets from the past work/experience, encourage learning through team building, cooperative learning and be able to provide, present, and explain answers thoroughly.

Aerial Transportation, Staff Sergeant JBLM, WA

86th Aerial Port Squadron, McChord AF Base *Sep 2021 – Now*

- Cargo Handling: 2+ years of using specialized equipment for loading, unloading, and handling hazardous materials onto military cargo onto military aircraft safely and efficiently. Obtained licenses of forklifts (*4K, 10K, 10K AT*), conveyor belt vehicle, staircase truck, and various military specialized equipment.
- Passenger Services: Collaborate with team to embark and disembark of military personnel and civilian passengers on over 100 trips. Ensuring their safety and comfort during air travel and coordinating with flight crews for smooth operations.
- Training and Readiness: Lead training sessions such as **SAPR** (*sexual assault prevention and response*), suicide prevention, forklift training (*10K AT*), and **GATES** training (*Global Air Transportation Execution System*).

Infantryman, Sergeant JBLM, WA

C Company, 4-23 Infantry Regiment, Fort Lewis *May 2016 – Sep 2020*

- Leadership: Learn and gain knowledge from higher leadership. Lead and train a 11 Army Soldiers squad as an infantry squad leader for over a year including conduct rigorous training in weapon systems, tactical maneuvers and land navigation, radio communication, MEDEVAC (*medical evacuation),* Army combat fighting vehicle maintenance.
- Discipline and Resilience: Cultivated a strong sense of discipline, resilience, and mental toughness in high-stress environments. Maintain military bearing, demonstrate proficiency in technical skill (*troop leading, implement encrypted military radio, troubleshooting weapon systems, map reading and terrain analysis)*, maintain high physical fitness standard as a leader in the infantry unit,
- Problem Solving: Enhance critical thinking and problem-solving abilities to overcome challenges in various situations from field training exercises, live-fire drills, and simulations. Successfully demonstrated a series of infantry exams/tasks and honorably gained "Expert Infantryman Badge" in Dec 2018.