

Bohan Yang

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SKILLS

- Programming Languages: Java, C#, Julia, Python, HTML, CSS, JavaScript, TypeScript, Motoko, SQL, NoSQL, MATLAB
- Technology: Azure, AWS, Powershell, Git, GitHub, Unity 2D/3D, MySQL, MongoDB, Django, React, REST, Maven

EDUCATION

University of Washington --- *B.S. in Computer Science*

09/28/2020 – 06/09/2023

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)*

05/01 2020 – 08/20/2020

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).

Complete C# Unity Game Developer 2D / 3D, Udemy.

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.

Security + CompTIA.

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.

Booking Restaurant Online

- Designed a restaurant booking system using **MERN** stack, **React** and **Redux** (frontend), **Node.js** and **Express** (server logic), **MongoDB** (database), encapsulated UI/UX design in **Figma** to deploy on **AWS EC2** with **Route53** for DNS management.
- Implemented secure, scalable backend with **MVCS** pattern, Node.js, Express, and MongoDB, integrating with JSON Web Token (**JWT**) and Bcrypt for robust user authentication and efficient reservation management with Mongoose schema models.
- Resolved the problem of compatibility issue during AWS deployment by adjusting server configurations and incorporating **JavaScript** process manager (**PM2**) and implemented automated deployment pipelines with **CodeBuild** and reduce downtime.

Django Learning Management System (LMS)

- Built a cloud scalable LMS using **Django**, **Python**, and **PostgreSQL**, harnessing the scalability and elasticity of **AWS**. Demonstrated expertise in full software development lifecycle (**SDLC**) and cloud-based software configuration management.
- Leveraged Python's extensive database connectivity libraries (psycopg2) to establish secure and efficient connections to **PostgreSQL** database hosted on **Amazon RDS**, showcasing adaptability to various database environments.
- Maintained data integrity and query performance through effective database optimization strategies and **Amazon RDS** for managed database solutions. This guarantees a seamless user experience and reliable access to essential learning resources.

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

Azure Networking Engineer (Layer 7)

LTIMindtree/Microsoft

Bellevue, WA

01/29/2024 – Present

- Designed and managed Virtual Networks with IP addressing, subnets, network security groups, firewall to control traffic, ensuring secure connection via Virtual Network Peering or VPN by leveraging IPSec/IKE and BGP for dynamic routing.
- Configured Azure Application Gateway and Azure Front Door for global load balancing including Windows VM IIS setup, SSL/TLS certificate setup, URL redirect/rewrite, split TCP acceleration, and enable WAF rules protect against DDOS attack.
- Enabled Azure private DNS zones ensuring private endpoint resolves to private IP within the virtual network and by leveraging private endpoints access SQL database and Azure Web App backend to store transaction and customer data.

Course Facilitator

University of Washington

Tacoma, WA

06/01/2022 – 06/01/2023

- 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

86th Aerial Port Squadron, McChord AF Base

JBLM, WA

09/10/2021 – 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

C Company, 4-23 Infantry Regiment, Fort Lewis

JBLM, WA

05/31/2016 – 08/20/2020

- 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.