

Jung In Chang

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Education

University of Illinois Urbana-Champaign, Master of Computer Science

08/2025 – Present

Boston University, College of Engineering

09/2019 – 05/2022

B.S in Computer Engineering, Concentration in Machine Learning

Dean's List for 3 semesters

Skills

Engineering: Full Stack, DevOps, Containerization, Deep Learning, Data Mining, NLP

Tech Stack: Typescript, React, NodeJS, AWS, GraphQL, C++, C#, Python, Kotlin, MongoDB, MySQL, Verilog

Work Experience

Veson Nautical | Full Stack Software Engineer

Boston | 08/2022 – 06/2025

- Engineered containerized microservices in Kubernetes and optimized TypeScript-based architecture, enabling 18% higher user traffic capacity and improved scalability for global maritime logistics clients.
- Streamlined the data replication workflow and synchronization process across two databases using AWS, achieving a 30% reduction in data latency while accommodating over 12,000 concurrent users.
- Established an automated end-to-end billing system through key technical initiatives such as PDF parsing, document reconciliation, and ML-based laytime calculation.
- Designed a remote/local caching system to optimize CI/CD pipeline performance, reducing completion time by 75%.
- Architected UI/UX for a client-facing maritime commerce application using Next.js and React, collaborating closely with designers and incorporating client feedback to ensure optimal user satisfaction.

Codecrain Inc. | AI / ML Engineer

Seoul, South Korea (Remote) | 06/2021 – 11/2021

- Oversaw the design, development, and enhancements of core engines for ML-based text analysis program.
- Optimized NLP capabilities by refining TensorFlow language models, achieving 95% accuracy in delivery.
- Implemented an automated crawling system using Python and managed MySQL database for real-time training.
- Increased model accuracy and F1-score of sentiment analysis by 10% through comprehensive analysis overhaul.

Projects

AT&T 5G Network Performance Testing | ML Engineer

09/2021 – 05/2022

- Developed a Kotlin-based Android app that automates network testing and provides real-time updates in Firebase.
- Designed a multi-regression ML model with scikit-learn to predict 5G speeds based on GPS coordinates and altitudes.

Route Recommendation App | Software Engineer

05/2022 – 06/2022

- Developed a Python Flask-based web application using OpenStreetMap API to recommend shortest routes, implementing Dijkstra and A* search algorithms for optimized travel paths.

Additional Projects: Weather Clothing Suggestion app, Cats and Dogs Classifier, Gomoku game app.

Honors & Awards

2019 Artificial Intelligence & Machine Learning Case Competition

Boston University | 11/2019

- Awarded for presenting innovative ideas on real-life AI applications and business models.

Award of RIMPAC 2018 (Rim of the Pacific Exercise)

RIMPAC Squadron | 08/2018

- Accomplished outstanding performance at RIMPAC 2018 as a naval engineer and sailor interpreter.

Military Service & Leadership

Ethen Academy, English Instructor

Daegu, South Korea | 12/2020 – 05/2021

Boston University Korean Entrepreneurs, Executive Committee

Boston University | 01/2020 – 03/2020

Boston University Football club, Member

Boston University | 09/2019 – 12/2019

Republic of Korea Navy, Petty Officer 2nd Class

Busan, South Korea | 08/2017 – 06/2019