

Jung In Chang

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Education

University of Illinois Urbana-Champaign, School of Computing and Data Science 08/2025 – 05/2026 (expected)

Master of Computer Science

Boston University, College of Engineering

09/2019 – 05/2022

B.S in Computer Engineering, Concentration in Machine Learning

Dean's List for 3 semesters

Work Experience

Veson Nautical

Boston, MA

Full Stack Software Engineer

01/2025 – 06/2025

- Implemented core features in "IMOSX CoCaptain", an automated end-to-end billing system through key technical initiatives such as PDF parsing, document reconciliation, and ML-driven laytime calculation, contributing to securing the company's largest client contract.
- Streamlined the data replication workflow and synchronization process across two databases using AWS SNS/SQS, achieving a 22% reduction in average data latency while accommodating over 11,000+ concurrent users.

Associate Software Engineer

08/2022 – 12/2024

- Engineered containerized microservices in Kubernetes and optimized TypeScript-based architecture, enabling 18% higher user traffic capacity and improved scalability for global maritime logistics clients.
- 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.

Seoul, South Korea

AI / ML Engineer

06/2021 – 11/2021

- Implemented core engines of a review analytics platform, enabling automated webpage text analysis using ODP classification, named entity recognition, and sentiment analysis.
- Built and optimized CNN-LSTM models, improving sentiment analysis accuracy and F1-score by 10% through an analysis pipeline overhaul.
- Developed an automated web crawling system and designed a training data pipeline in AWS S3 to collect, preprocess, and manage large-scale text datasets.

Projects

AT&T 5G Network Performance Testing

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

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.

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

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.