

# Jung In Chang

[wjddlsdl784@gmail.com](mailto:wjddlsdl784@gmail.com) | 617-949-0365 | <https://changju784.github.io/> | Chicago, IL

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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 (PDF parsing, document reconciliation, ML-driven laytime calculation), contributing to a \$6M contract with Top 3 oil shipping companies.
- Streamlined the data replication pipeline synchronizing for a distributed system using AWS SNS/SQS and Lambda, achieving a 22% reduction in P99 data latency while accommodating 11K+ 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, Distributed Systems, DevOps, Containerization, Deep Learning, Data Mining, NLP

Tech Stack: Typescript, React, Node.js, Next.js, 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.