

Jung In Chang

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Education

University of Illinois at 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

08/2022 – 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.
- 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

ML Engineer Intern

06/2021 – 11/2021

- Developed core ML engines of a "[Reviews Analytics](#)" platform, enabling automated webpage text analysis using ODP classification, named entity recognition, and sentiment analysis.
- Trained and fine-tuned CNN-LSTM sentiment models in PyTorch, achieving a 10% improvement in F1-score through optimized preprocessing, tokenization, and hyperparameter tuning.
- Built an automated web crawler and AWS S3-based ingestion pipeline to collect, clean, and structure over 200K text samples for large-scale training and evaluation.

Projects

Chi-311 Agentic AI

08/2025 – Present

- Built an MCP-compatible FastAPI + Playwright server enabling ChatGPT and Claude to automate Chicago 311 service requests through structured tool discovery and real-time orchestration.

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.

Additional Projects: Social-media Stock Estimator, Weather Clothing Suggestion app, Route Recommendation App.

Skills

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

Tech Stack: Typescript, React, Node.js, AWS, C++, C#, Python, PyTorch, TensorFlow, Kotlin, MongoDB, MySQL

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.