

Jung In Chang

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Education

University of Illinois at Urbana-Champaign

08/2025 – 12/2026

M.S in Computer Science (GPA 4.0/4.0)

Boston University

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

Ful Stack Software Engineer

08/2022 – 06/2025

- Built scalable infrastructure for “[IMOSX CoCaptain](#),” an automated billing system; managed end-to-end lifecycle from API integration to production monitoring, contributing to a \$6M contract with Top 3 oil shipping companies.
- Streamlined a data replication pipeline across distributed systems using SQL, MongoDB, AWS SNS/SQS and Lambda, achieving a 22% reduction in P99 data latency while supporting 11K+ concurrent users.
- Deployed containerized microservices on Kubernetes and optimized the 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 a scalable UI framework for a client-facing maritime commerce application using Next.js and React, collaborating closely with designers and stakeholders to incorporate client feedback.

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

- Built an orchestration layer for an MCP-compatible agentic AI server using FastAPI, enabling LLMs (GPT-4, Claude 3.5) to autonomously submit Chicago 311 civic service requests via Playwright automation.
- Optimized prompt engineering pipeline to handle multimodal inputs, including context-aware image/audio metadata.

AT&T 5G Network Performance Testing

- Developed a Kotlin-based Android app to automate network KPI testing and real-time data streaming in Firebase.
- Designed a multi-regression ML model with scikit-learn to predict throughput based on GPS coordinates/altitudes.

Additional Projects: TripCircle – AI Travel Planning Platform, Social-media Stock Estimator, Clothing Suggestion app.

Skills

Engineering: LLM Orchestration (RAG, Agentic AI), Distributed Systems, Full Stack Development, NLP, MLOps

Tech Stack: Python, SQL (PostgreSQL, MongoDB), AWS (SNS/SQS, Lambda, S3), Kubernetes, Docker, Typescript, C++

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.