Jung In Chang

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Education

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 Engineer   *Boston | 08/2022 – Present*
- Managed containerized microservices in Kubernetes environments and Typescript-based framework architecture to support an 18% increase in user traffic and improve system scalability.
- 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 for Exxon Mobil, securing $6M deal and boosting revenue 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.

Food Scanning App | Software Engineer   *09/2021 – 10/2021*
- Implemented core backend features including barcode information extraction via REST APIs and user authentication.
- Developed and tested the UI using Flutter incorporating essential components and interactions.

Additional Projects: Cats and Dogs Classifier, Gomoku game app, Verilog Guess the number game, Truss Design.

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*
International Youth Fellowship, Korean Instructor   *University of Colorado Denver | 01/2016 – 04/2016*