Jiwoon Choi

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EDUCATION

Mar. 2016 – Mar. 2020	**KOREA MILITARY ACADEMY**	**Seoul, Korea**

B.A., Military English & B.M.A.S., Military Art and Science
- Graduated with highest distinction as the top student in the Military English major
  (1st in major; equivalent to summa cum laude)
- Completed extensive STEM coursework beyond major requirements with strong overall performance. Representative coursework: Introductory Computer Science; Applied Mathematics; Probability & Statistics; Operations Research; Physics I; Electrical Engineering Fundamentals; Military Robotics; Defense Modeling & Simulation; Introduction to Cyber Warfare

CS & LINGUISTICS RELATED EDUCATION

Sep. 2023 – Jun. 2024	**SEOUL CYBER UNIVERSITY**	**Seoul, Korea**

- Earned straight A/A+ grades across mathematics and programming coursework
- Coursework: Advanced Engineering Mathematics; Linear Algebra; Discrete Mathematics; System Programming(Linux); C Programming

Sep. 2023 – Dec. 2023	**SEJONG CYBER UNIVERSITY**	**Seoul, Korea**

- Achieved A+ grades in linguistics and computer science coursework
- Coursework: Data Structure & Algorithm; Introduction to Linguistics

Mar. 2024 – Jun. 2024	**KYUNG HEE CYBER UNIVERSITY**	**Seoul, Korea**

- Completed one semester of programming coursework with all A+ grades
- Coursework: Java Programming; Object Oriented Programming (C++/C#)

TECHNICAL SKILLS

- Languages: Python, Java, C
- AI/ML: TensorFlow, scikit-learn, NumPy, Pandas, CNNs, RNNs, Transformers
- Tools: Git/GitHub, VS Code, Raspberry Pi

PROJECTS

Voice-Controlled RGB LED System | Raspberry Pi, Python
- GitHub: github.com/Jiwoon-Choi/raspi-voice-led-control
- Designed a real-time voice-operated LED controller using Google Speech Recognition and Raspberry Pi
- Implemented audio processing and event-driven hardware control; published code and demo video on GitHub

Voice-Based Weather Assistant | Raspberry Pi, Python, NLP
- GitHub: github.com/Jiwoon-Choi/raspi-voice-weather-assistant
- Built a voice assistant capable of parsing natural-language queries, retrieving weather data on API, and responding using TTS
- Implemented rule-based NLP, time reasoning, and full ASR → NLP → API → TTS pipeline; publicly documented with demo video

RESEARCH EXPERIENCE

Mar. 2019 – Jul. 2019	**Future Army Project	Republic of Korea Army & Seoul National University**

- Selected as one of the eight cadets from Korea Military Academy to take part in a joint research program between Republic of Korea Army and Institute of International Studies, Seoul National University for a semester
- Analyzed impacts of Fourth Industrial Revolution technologies (AI, automation, cyber operations) on U.S.-China strategic competition using scenario modeling and qualitative

political analysis

WORK EXPERIENCE

Mar. 2020 – Feb. 2026	**REPUBLIC OF KOREA ARMY**

U.S. Army Garrison Daegu ROKA Staff Officer (Captain), 8th Army ROKA Support Group (Oct. 2023 to Dec. 2025)
- Served as the primary liaison between ROK Army and three U.S. Army units, coordinating information flow and operational alignment between the ROK and U.S. Army units
- Managed personnel data and administrative systems for Korean Augmentation to the United States Army (KATUSA) soldiers; advising U.S. Army commanders on policy and workforce management of KATUSA soldiers
- Designed and implemented new ROK-U.S. professional development initiatives - including a combined NCOPD program and joint obstacle-course training to enhance interoperability and institutional cooperation

Interpreter Officer (First Lieutenant), Directorate of Policy, Republic of Korea Army Headquarters (Sep. 2022)
- Selected by Army Headquarters to support Defense Expo Korea (DX KOREA) 2022 as a Korean-English interpreter for high-level diplomacy meetings
- Facilitated strategic communication between ROK Army generals and foreign military delegations

Executive Officer (First Lieutenant), Reconnaissance Company, 72nd Infantry Brigade (Jun. 2022 to Apr. 2023)
- Managed complex organizational, logistical, and personnel systems supporting 100+ soldiers, ensuring synchronized operations across company and brigade elements
- Streamlined administrative and operational workflows, improving decision-making efficiency and reducing delays in mission planning and resource allocation

Guard Post Commander (First Lieutenant), Reconnaissance Company, 72nd Infantry Brigade (Jun. 2021 to Jun. 2022)
- Commanded 24/7 border-guard operations in the Demilitarized Zone (DMZ), coordinating with the United Nations Command to ensure mission continuity and security
- Improved automated surveillance efficiency by redesigning PTZ camera preset configuration using geographic analysis and operational-pattern data

Platoon Leader (Second Lieutenant), Scout Platoon, 2nd Battalion, 72nd Infantry Brigade (Jun. 2020 to Jun. 2021)
- Led a scout platoon conducting Southern Limit Line (SLL) security operations, served as the primary quick reaction force responding to cross-border incidents and emergency situations
- Oversaw risk assessment, situational awareness, and rapid decision-making in high-pressure environments

CERTIFICATIONS

Aug. 2025	**Deep Learning Specialization	DeepLearning.AI**

- Natural Language Processing, Sequence Models, Convolutional Neural Networks, Performance Tuning, MLOps, TensorFlow

Jun. 2025	**Machine Learning Specialization	DeepLearning.AI & Stanford University**

- Regression Analysis, Feature Engineering, Classification And Regression Tree (CART), NumPy, scikit-learn, Decision Tree Learning, Random Forest Algorithm, Data Ethics, Anomaly Detection, Dimensionality Reduction, Recommender Systems, Reinforcement Learning

Nov. 2023	**Data Science and Machine Learning: Making Data-Driven Decisions	MIT Schwarzman College of Computing**

- Python Programming, Data Analysis, Classification and Hypothesis Testing, Computer

Vision, Recommendation Systems, Ethical and Responsible AI, Networking and Graphical Models, Predictive Analysis

Dec. 2022	**SQLD (SQL Developer) | Korea Data Agency** • SQL, Data Modeling
Sep. 2022	**ADsP (Advanced Data Analytics Semi-Professional) | Korea Data Agency** • Data Analytics, R Programming, Statistical Analysis, Structured Data Mining

AWARDS / HONORS

Dec. 2024	**Certificate of Achievement – NCOPD Contribution** • Recognized for developing a combined ROK-U.S. Noncomissioned Officer Professional Development (NCOPD) program that strengthened cross-unit cooperation
Oct. 2023	**Honor Graduate, Infantry Captain's Career Course** • Ranked in the top 3 overall for academic excellence and leadership
Jan. 2022	**Certificate of Achievement – DMZ Operations** • Commended for meritorious service in commanding Guard Post security operations in the Demilitarized Zone (DMZ)
May 2021	**Exemplary Officer of the Month** • Selected as the ROK Army 25th Infantry Division's Exemplary Officer of the Month (May 2021) for exceptional performance and professionalism
Feb. 2020	**Dean's Award for Academic Excellence** • Awarded to cadets earning the highest GPA within their major
Mar. 2020	**Lee Jae Ho Award** • Awarded to the top English-proficiency cadet in the Class of 2020

VOLUNTEERING / TEACHING EXPERIENCE

May. 2023 – Sep. 2023	**Youth Mentor | ChildFund Korea** • Served as a mentor for underprivileged teenagers through the Foster Care Center at ChildFund Korea • Provided one-on-one mentorship to a child in Gwangju, Republic of Korea • Tutored the child in reading and mathematics • Offered guidance on academic planning, career exploration, and long-term preparation for the future

LANGUAGE PROFICIENCY

- GRE General Test Verbal Reasoning score of 166 (96th percentile)
- English: TOEFL iBT score 115/120
- Spanish: two semesters of Spanish coursework with all A+ grades