Jinmin Goh

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CAREER

NGINE STUDIOS (NEXON COMPANY, Jul 2020 – Nov 2022)

- **Software Engineer** / Military Service Specialist (Jul 2020 – Jun 2022)
- **Research Department** (Jul 2021 – Nov 2022)
  - MapleStory sentence distortion algorithm development
    - Developed an algorithm in Python for the "Find the Correct Sentence!" in the game *MapleStory*
    - Developed an algorithm to generate distorted sentences based on varying degrees of distortion from a correct sentence
  - KartRider highlight extraction
    - Developed a project in Python to extract highlight segments between two players in *KartRider*
    - Designed and implemented an algorithm to identify driving segments where the "actor" outperformed the "highlighter" based on driving coordinate data in a ksv file
    - Developed a program to recombine extracted highlights into a new ksv file
  - New word detection
    - Developed an algorithm in Python to detect neologisms not present in the corpus using NLP
    - Applied statistical methodologies and the SA-IS algorithm to detect new words using the Sejong Corpus
    - Conducted code maintenance and documentation
  - YouTube game classification
    - Developed a project in Python using NLP to classify YouTube videos by corresponding games
    - Utilized the Naïve Bayes theorem and word pair concepts to achieve approx. 90% accuracy
    - Developed a web page to display video classification results and conducted code maintenance
- **Advertising Department** (Oct 2020 – Jun 2021)
  - Managed web pages using React, TypeScript, and Material-UI
  - Managed servers and performed feature updates using JS and TS
- **Intern** (Jul 2020 – Oct 2020)
  - Reviewed problems for the 2020 NYPC preliminary round
  - Developed a Slack bot (Lunch Alert Bot) using JS for internal use

Seoul National University Hospital Biomedical Research Institute (Mar 2019 – Nov 2019)

- **Research Intern**, Division of Clinical Bioinformatics under Prof. Kwangsoo Kim
  - Participated in national research projects in the field of bioinformatics and cancer genetics under Prof. Kye Hwa Lee (Precision Medicine Center)
  - Identification of synthetic chemosensitivity genes paired with *BRAF* for BRAF/MAPK inhibitors
    - Co-authored a paper as first author, published at *Scientific Reports* (Nature Research journals, DOI: 10.1038/s41598-020-76909-2)
    - Conducted statistical analysis and data visualization using R and Python on a Linux server
  - Identification of synthetic cytotoxic gene pairs associated with a therapeutic response for the anticancer drug etoposide based on cell line-drug database
    - Presented the abstract as a poster presenter at the 2019 ASHG Annual Meeting in Houston

SK Hynix Academic Exchange Internship (Dec 2018 – Feb 2019)

- **Intern**, DRAM Etch 1 Team, Future Technology Research Institute
  - Improvement of SNC HM ACL Upper Layer Clogging Using Design of Experiments (DOE)
    - Analyzed the effects of three factors—pressure, bias, and chemicals—on clogging
    - Applied and optimized the Design of Experiments methodology using JMP
    - Awarded the Vice President's Award from SK Hynix Future Technology Research Institute
  - Successfully admitted as a scholarship student through a special selection process for academic exchange interns

EDUCATION

Pohang University of Science and Technology (POSTECH, Feb 2016 – Feb 2025 (expected))

- Bachelor of Science in Chemical Engineering, Double Major in Computer Science and Engineering
- **GPA**: 3.77 / 4.3 (Completed 9 semesters, 173 credits + 7 units)

Gyeonggi Science High School for the Gifted (Mar 2013 – Feb 2016)

- **GPA**: 3.65 / 4.3

EXPERIENCE

POSTECH Machine Learning Lab Research Participation (Mar 2024 – Present)

- Post-hoc Concept Probing of an End-to-end RL Model: Extracting an Opponent Hand Estimator from Mahjong AI
  - Advisor: Prof. Jungseul Ok / Research Outcome for Project Study I
  - Successfully extracted specific concepts embedded within a black-box end-to-end RL model
  - Analyzed the structure of the Mahjong AI and applied concept probing techniques, making the model more interpretable

POSTECH Software Design Methods Team Project (Nov 2023 – Dec 2023)

- "Code Scent", Customizable Code Smell Detection Plugin for IntelliJ IDEA
  - Worked in a team using eXtreme Programming methodology to develop a plugin for IntelliJ IDEA
  - Established custom coding conventions and git logging & branching conventions for development
  - Developed features for detecting and visualizing code smells, with customizable detection criteria
  - Took responsibility for developing the plugin's GUI and implementing the customization of code smell detection criteria

SKILL & HONOR

- **Problem Solving:** LeetCode (eric970901), BOJ (eric9709, solved.ac), KOISTUDY (gs13008)
- **Competitive Programming:** 2022 Woori Coding Festival (Special Prize, Python), **Google Hash Code 2020** (1229th place, Online Qualification Round), Codeforces (JEMINI), AtCoder (JEMINI), Topcoder (JEMINI)
- **Programming Languages & Frameworks:** Python, C++, C, Java, JS, TS, HTML, CSS, R, React, Material-UI
- **Other Skills:** Linux, Git, Jupyter notebook, Machine Learning
- **Languages:** Korean (Native), English (Advanced, TOEIC 830), Japanese (Intermediate, JLPT N3)
- **Scholarship:** SK Hynix Industry-Academia Scholarship (2019), National Science & Engineering Scholarship (2018 – 2023), Boeing Scholarship (2017), Full Tuition Scholarship (2016 – 2023)