

Suro Lee

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EDUCATION

Columbia University <i>Master of Science – Computer Science, Machine Learning Track</i> <ul style="list-style-type: none">GPA: 4.08	Dec 2023 (expected) New York, US
Korea Advanced Institute of Science and Technology (KAIST) <i>Bachelor of Science – Computer Science, Specialization in Artificial Intelligence</i> <i>Minor in Electrical Engineering</i>	Dec 2021 Daejeon, Korea

TECHNICAL SKILLS

Languages: Python, C++, JavaScript Machine Learning: PyTorch, TensorFlow Web Development: HTML, CSS, Svelte, Flask, Bootstrap, Node.js	Mobile Development: Android Studio, Flutter, Unity Distributed Systems: Apache Kafka, Apache Spark, Apache HBase Developer Tools: Docker, GitHub
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EXPERIENCE

Columbia University <i>Teaching Assistant (Spring 2023, Fall 2022)</i> <ul style="list-style-type: none">Competitive Programming: Supported 220+ undergraduate/graduate students prepare for ICPC contests by holding weekly office hours that cover solutions to challenging problemsComputing for Business Research: Supported 70+ graduate students in Python, MATLAB, C, Bash, R, MySQL, TensorFlow, and Git by holding weekly office hours	Sep 2022 – May 2023 New York, US
Samsung Research <i>Software Engineer, Visual Perception Team</i> AI Recipe Navigation <ul style="list-style-type: none">Led the full-stack development of an interactive recipe navigation web demo with 2000+ lines of Python and JavaScript code using Node.js, Flask, Svelte, Bootstrap, and MosquittoDeployed three state-of-the-art AI models and managed communication between the models using the MQTT and FlexBuffers AI Cooktop <ul style="list-style-type: none">Developed an ingredient detection demo that uses a projector and a homography matrix to display detection results on a kitchen table and suggest appropriate recipes based on the ingredients	Jan 2022 – Jul 2022 Seoul, Korea
KAIST INA Lab <i>Undergraduate Researcher</i> Project: Content-Aware and Task-Aware Variable Rate Image Compression using Compressive Autoencoders <ul style="list-style-type: none">Exploited content-specific redundancies by training a compressive autoencoder with a dataset consisting of only one type of content such as faces (i.e., CelebA Dataset), achieving up to 2% improvement in terms of PSNROptimized the compressive autoencoder for a task-specific loss instead of a perceptual loss, which outperformed JPEG in image classification up to 11% in terms of accuracy for low resolution images	Feb 2021 – Sep 2021 Daejeon, Korea
Koh Young Technology <i>Research Intern, Machine Intelligence Team</i> <ul style="list-style-type: none">Implemented a prototype for a distributed, real-time SMT (surface-mount technology) inspection process using Apache Kafka, Apache Spark, and Apache HBase—which was later developed into a successful full-fledged productAchieved up to 10x speed up from batch processing, significantly decreasing the number of defects in the solder paste printing process	Mar 2019 – Aug 2019 Yongin, Korea

EXTRACURRICULAR ACTIVITIES

2022 ICPC Greater New York Regional Contest <ul style="list-style-type: none">16th out of 78 teams in the Greater New York Region	Feb 2023
2022 ICPC North American Qualifier <ul style="list-style-type: none">4th out of 64 teams in Columbia University	Feb 2023