

CHAE LIN KIM

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PERSONAL PROFILE

I'm a machine learning researcher interested in Facial expression recognition with few-shot learning. I am a hardworking and ambitious individual with a great passion for the machine learning.

EDUCATION

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| Sookmyung Women's University <i>Master of Engineering in IT Engineering</i> <ul style="list-style-type: none">Advisor: Professor Byung-Gyu Kim | Seoul, Korea <i>Sep. 2021 – Aug. 2023 (expected)</i> |
| Sookmyung Women's University <i>Bachelor of Engineering in IT Engineering(Magna Cum Laude)</i> | Seoul, Korea <i>Mar. 2016 – Aug. 2021</i> |

RESEARCH EXPERIENCE

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| Sookmyung Women's University <i>Research Intern</i> <ul style="list-style-type: none">Investigated on identifying valuable features of context information to inference similar type of publicationsProposed a Fusion algorithm of Object Detection and Depth Information for detecting dangerous situation in Real-timeConducted a survey study for recent Classification and Detection State-of-the-Art models and implemented architectures | Seoul, Republic of Korea <i>Mar. 2021 – Aug. 2021</i> |
| Sookmyung Women's University <i>Graduate Researcher</i> <ul style="list-style-type: none">Developed a deep learning-based vision inspection system for bamboo toothbrushProposed a deep learning-based fault detection algorithm by separating Detection and Classification module for manufacturing automationDeveloped a matching technologies based on context information analysis for expanding the market of online publicationsConducted a survey study for Facial Expression Recognition and Meta-Learning especially Few-shot Learning | Seoul, Republic of Korea <i>Sep. 2021 – Present</i> |

JOURNAL PUBLICATION

- A Study of the Fault Detection Technique for the Bamboo Toothbrush Manufacturing Automation, **Chae Lin Kim(First)**, Young-Ju Choi, Byung-Gyu Kim*, Eun-Ha Park, Kyung-Tae Lee, KMMS Autumn Conference (KMMS)
- Development of Real-time Dangerous Situation Detection Algorithm Based on Object Detection and Depth Information Fusion, **Chae Lin Kim(First)**, Jeong-Been Seo, Byung-Gyu Kim*, KMMS Spring Conference (KMMS)

CONFERENCE PRESENTATIONS

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| Korea Multimedia Society (KMMS) Autumn Conference 2021 <i>Poster presentation</i> <ul style="list-style-type: none">Title: A Study of the Fault Detection Technique for the Bamboo Toothbrush Manufacturing Automation | Nov. 26, 2021 <i>Online, Republic of Korea</i> |
| Korea Multimedia Society (KMMS) Spring Conference 2021 <i>Poster presentation</i> <ul style="list-style-type: none">Title: Development of Real-time Dangerous Situation Detection Algorithm Based on Object Detection and Depth Information Fusion | April. 30, 2021 <i>Online, Republic of Korea</i> |

HONORS AND AWARDS

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| Graduation with honors: magna cum laude, Sookmyung Women's University | 2021 |
| Semester best honors Award, Sookmyung Women's University | 2021 |
| Semester high honors Award, Sookmyung Women's University | 2017, 2020 |
| 1st Place Award, Java Hackathon in Jeju CCEI | 2019 |
| 2nd place Award, Appjam in SOPT | 2020 |
| Undergraduate Research Scholarship, Sookmyung Women's University | 2021 |

PROGRAMMING EXPERIENCE

Java Programming Education in Jeju CCEI

Member of program

Jeju Island, Korea

July. 2019 – Aug. 2019

- Designed a location based game application to solve social problems in Jeju island

(SMWU-KSU Interdisciplinary) Hackathon with AWS Educate

Member of program

Seoul, Korea

Feb. 2020

- Proposed deep learning-based app service using text and vibration to alert dangerous situation for auditory disordered people

University student programming union club (SOPT), think about wording!

Server Engineer

Seoul, Korea

Sep. 2019 – Dec. 2019

- Designed an application service of vintage shopping mall as a server engineer and managed database

EXTRACURRICULAR ACTIVITIES

Sookmyung Unesco-Unitwin ICT education program

Student Assistant, Volunteer

Phnom Penh, Cambodia

Aug. 2020

- Assisted Arduino and mobile application programming course and managed student's hackerthon project

Sookmyung University Major Mentor Program (SUMM)

IT Engineering Mentor

Seoul, Korea

Sep. 2019 – Feb. 2021

- Delivered an introduction of IT Engineering lecture once a month and mentored high school students hoping for major in IT Engineering

TECHNICAL SKILLS

Languages: Python (TensorFlow, Pytorch), C/C++, Java, HTML/CSS, JavaScript

Developer Tools: Git, Amazon Web Services, Google Cloud Platform, VS Code, Visual Studio, Eclipse

Database: MySQL