

# CHAE LIN KIM

7, Cheongpa-ro 47na-gil, Yongsan-gu, Seoul, Republic of Korea  
(+82)10-4917-4468, ccaa9697@sookmyung.ac.kr, ccaa9697@gmail.com  
<https://chaelin0722.github.io>

## PERSONAL PROFILE

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I'm a computer science researcher with a focus on deep learning in facial expression recognition with few-shot learning. I have extensive experience in deep learning and AI research with institutions in both Korea and USA, my research is published in multiple international journals and I have presented my research in various conferences. I am a hardworking and ambitious individual, I am a self-starter and I am highly motivated with a great passion in the field of machine learning.

## EDUCATION

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<b>Sookmyung Women's University</b> <i>Master of Engineering in IT Engineering</i> <ul style="list-style-type: none"><li>Advisor: Professor Byung-Gyu Kim</li></ul>	Seoul, Korea <i>Sep. 2021 – Aug. 2023 (expected)</i>
<b>Sookmyung Women's University</b> <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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<b>The University of Akron</b> <i>Exchange Research Intern</i> <ul style="list-style-type: none"><li>Apply deep learning algorithms to Facial expression recognition and electrocardiogram classification</li></ul>	Ohio, US <i>July. 2022 – Aug. 2022</i>
<b>Sookmyung Women's University</b> <i>Graduate Researcher</i> <ul style="list-style-type: none"><li>Conducted surveys for facial expression recognition and meta-learning with a focus on few-shot learning</li><li>Applied few-shot learning on FER task to solve the overfitting problem of facial expression datasets</li><li>Developed a deep learning-based vision inspection system for a bamboo toothbrush</li><li>Proposed a deep learning-based fault detection algorithm by separating the detection and classification module for manufacturing automation</li><li>Developed matching technology based on context information analysis for expanding the market of online publications</li><li>Currently in process of conducting more research in a wide variety of topics</li></ul>	Seoul, Republic of Korea <i>Sep. 2021 – Present</i>
<b>Sookmyung Women's University</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>Researched identifying valuable features of context information to inference similar types of publications</li><li>Proposed a fusion algorithm of object detection and depth information for detecting dangerous situations in real-time</li><li>Conducted surveys for recent classification and detection of state-of-the-art models and implemented architectures</li></ul>	Seoul, Republic of Korea <i>Mar. 2021 – Aug. 2021</i>

## JOURNAL PUBLICATION

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### International Journal

- To be published

### Korean Journal

- 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**

Nov. 26, 2021

*Poster presentation*

*Online, Republic of Korea*

- Title: A Study of the Fault Detection Technique for the Bamboo Toothbrush Manufacturing Automation

### **Korea Multimedia Society (KMMS) Spring Conference 2021**

April. 30, 2021

*Poster presentation*

*Online, Republic of Korea*

- Title: Development of Real-time Dangerous Situation Detection Algorithm Based on Object Detection and Depth Information Fusion

## TEACHING EXPERIENCE

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### **Sookmyung Women's University | Teaching Assistant**

Seoul, Republic of Korea

#### **Image Processing and its Applications**

March. 2022 – June. 2022

- Assist and teach MFC window programming with C language using Visual Studio
- Answered questions in person and online, marked assignments, and proctored exams for 30+ students

## HONORS AND AWARDS

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Graduation with honors: magna cum laude, Sookmyung Women's University	2021
Best honors Award, Sookmyung Women's University	2021
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

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### **Java Programming Education in Jeju CCEI**

Jeju Island, Korea

*Member of program*

*July. 2019 – Aug. 2019*

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

### **(SMWU-KSU Interdisciplinary) Hackathon with AWS Educate**

Seoul, Korea

*Member of program*

*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)**

Seoul, Korea

*Server Engineer*

*Sep. 2019 – Dec. 2019*

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

## EXTRACURRICULAR ACTIVITIES

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### **Graduate Student Council**

Seoul, Korea

*Student President*

*March. 2022 - March. 2023*

- Hosted meetings and conferences for professors and graduate students

### **Sookmyung Unesco-Unitwin ICT education program**

Phnom Penh, Cambodia

*Student Assistant, Volunteer*

*Aug. 2020*

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

### **Sookmyung University Major Mentor Program (SUMM)**

Seoul, Korea

*IT Engineering Mentor*

*Sep. 2019 – Feb. 2021*

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

## TECHNICAL SKILLS

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**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

## REFERENCES

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**Byung-Gyu Kim, Full Professor**

Department of IT Engineering

Sookmyung Women's University

+82-2-0000-0000, bg.kim@ivpl.sookmyung.ac.kr

**Gyung-SOO Hong???, IT Solution Architect**

NVIDIA

+82-2-0000-0000, tmp@sookmyung.ac.kr