# Yukyeom Kim

✉ dbrua1222@ajou.ac.kr
✉ yukyeom@ryuzu.me
 GitHub Profile
 LinkedIn Profile

## EDUCATION

- **Ajou University** *Mar '20 - Current*
  *Department of Software and Computer Engineering*    GPA : 3.92/4.5 (Major GPA : 3.96/4.5)

## EXPERIENCE

- **AJOU Computer Graphics Lab. (Prof. Ri Yu)** *Dec '22 - Dec '24*
  *Undergraduate Internship*    Suwon, Korea

  – Interested in creating "Digital Humans" in the virtual world. Research humans for understanding, modelng, simulating, and analyzing humans.

- **NeuroSense** *Jan '25 - Feb '25*
  *Internship*    Gwangmyeong, Korea

  – Collaborated with a defense company to develop a UI for controlling missile sensor and managed the data transmission process between the sensor, UI, and server, while visualizing data from temperature, humidity, and other sensors.

- **SoftWare Maestro** *April '25 - Current*
  *Trainee*    Seoul, Korea

  – Launched a Japanese language learning service featuring conversational practice with anime-inspired characters, covering the entire process from item selection and planning to A/B testing, GA analysis, and user interviews for validation.

## PUBLICATION

- **Exercise Categorization and Analysis from Monocular Video**
  Yukyeom Kim, Ri Yu
  Korea Computer Graphics Society Academic Conference 2023 (KCGS '23), Jeju, South Korea, July 11-14, 2023

- **The novel Gait Cycle Detection Network (GCDN) for Video based gait Analysis based on single 2D RGB video**
  DaeYong Kim, YeonSoo Lee, Yukyeom Kim, JungHwan Shin, Clint Hansen, Walter Maetzler, Ri Yu
  2024 International Congress of Parkinson's Disease and Movement Disorders (MDS '24),
  Philadelphia, PA, USA, Sep 27-Oct 1, 2024

## RESEARCH INTERESTS

- **AI, Computer System Software**

- **Algorithm,** Computer Graphics, Graph Theory, Number Theory

## ACTIVITIES AND PROJECTS

\* ICPC : International Collegiate Programming Contest

- **Ajou Programming Contest (APC) - 2024** *Mar '24 - May '24*
  *Director, Problem setter*

  – Annual ICPC-style programming contest held in Ajou Univ.
  – Managing Overall Schedule / Contest / PaperWorks
  – Making & Testing Problems

- **Ajou Programming Contest (APC) Extra - 2024** *Nov '24 - Dec '24*
  *Director, Problem setter*

  – ICPC-style extra programming contest held in Ajou Univ.
  – Directing Overall Schedule / Contest / PaperWorks
  – Making & Testing Problems

- **shake! - 2025** *Nov '25 - Current*
  *Manager*

  – Annual ICPC-style programming contest
  – Representatives from seven universities participated, including Ajou, KyungHee, SKKU, Inha, KAU, Hanyang ERICA, and Dankook.

- **Analyze 'N Solve It (ANSI)** *July '21 - Current*
  *Member, President in 2024*

  – Algorithmic problem solving club in Ajou University
  – Ran algorithmic problem solving study group – {Beginner, Intermediate, Advanced} Algorithm study group
  – Directed several programming contests

- **Kanata - Japanese Conversation Edu Service** *Apr '25 - Current*
  *AI Engineering*

  – Implemented real-time interactions between users and AI characters using the WebRTC-based LiveKit platform.
  – Served a custom TTS model offering more realistic and faster speech than commercial services.
  – Achieved 1,500+ cumulative users within two months of launch, with 100+ DAU over the past two weeks.

## FURTHER SKILLS AND QUALIFICATIONS

- **Software Skills :** C/C++, Python, LaTeX

- **Language :** Korean(Native), English(Conversational, OPIc IM3), Japanese (Proficient, JLPT N1)

## ACHIEVEMENTS AND HONORS

- **34th Place,** ICPC Asia Seoul Regional *Nov '23*

- **7th Place,** Ajou Programming Contest(APC) *May '23*

- **Honorable Mention,** Study Group Contest in Ajou University (Mo-Gak-So) *Jan '23*

- **8th Place among 134 Clubs,** Ajou Club Contest, as a President of A.N.S.I *May '24*

- **3rd Place,** ICPC Asia Seoul Regional First Round in Ajou *Oct '24*

- **Academic Scholarship (Dasan Scholarship),** Ajou University *Jul '20*

- **Academic Scholarship (Dasan Scholarship),** Ajou University *Dec '22*

- **Academic Scholarship (Dasan Scholarship),** Ajou University *Jul '23*

- **Academic Scholarship (Dasan Scholarship),** Ajou University *Dec '23*

- **Academic Scholarship (Dasan Scholarship),** Ajou University *Jul '24*