

Wonjae Kim

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EDUCATION

University of Maryland College Park

College Park, MD

Bachelor of Science in Computer Science, Minor in Business

Expected to Graduate in May 2026

- **Honors:** 2023-2024 Dean's List
- **Courses:** Algorithms, Application of Linear Algebra, Artificial Intelligence, Computer and Network Security, Applied Probability and Statistics, Organization of Programming Languages, Data Science, Discrete Structures

EXPERIENCE

NEMO Research Assistant

Feb 2025 – Present

Research Assistant

College Park, MD

- Optimized parallel algorithms in C/C++ stellar dynamics code, boosting simulation performance
- Ported core modules for cross-platform compatibility, ensuring seamless functionality on both Windows and macOS

Hancom – Cross-Platform Transition

Jun 2024 – Aug 2024

Software Engineer Intern

South Korea

- Spearheaded the end-to-end **migration** of iOS and Android applications to **Flutter**, significantly improving cross-platform compatibility and increasing development **efficiency** by **30%**
- Collaborated with **6 developers** & **3 designers** to build hi-fi prototypes, improving integration and functionality
- Assisted the team in enhancing development processes, delivering project **milestones 15% ahead of schedule**

GIT – Automobile Diagnostic Solution

Jun 2019 – Aug 2019

Software Engineer Intern

South Korea

- Worked on **advanced automotive diagnostics** targeting next-gen safety and eco-friendly technologies
- Developed advanced **electric vehicle diagnostics**, aligning with trends in autonomy and connectivity.
- Improved **vehicle performance, quality, and inspection technologies** by implementing strategic enhancements

PROJECTS

AI Couple Compatibility Scoring System | *Python, TensorFlow, AWS, Django*

Dec 2024 – Feb 2025

- Built a **TensorFlow** AI model for couple compatibility, trained on **50,000+** labeled images with **95% accuracy**
- Designed **real-time scoring APIs** with Django and AWS, integrating embedding-based similarity measures
- Delivered responsive AI-powered UX for web and mobile using **React**, and **Flutter**

Human-to-Animal Facial Resemblance Classifier AI | *Python, TensorFlow, OpenCV*

Jan 2024 – Mar 2024

- Trained an AI model using **CNN** and **U-Net** to classify human faces into animal-like categories
- Automated dataset creation, collecting and **preprocessing 10,000+ images** with face detection and augmentation
- Enhanced model performance through **batch normalization, dropout layers, and reducing overfitting**

August | *Software Engineer, Flutter Lead Developer*

Jun 2023 – Present

- **Co-founded** and led development of 'August', a college scheduler app for Android and iOS using **Flutter**, with a focus on user-friendly interface and **cross-platform compatibility**
- Created an innovative scheduling algorithm analyzing available slots, open seats, and user preferences
- Integrated **20+ RESTful APIs** and utilized web scraping for real-time data from school websites
- Acquired essential skills in all steps of MVP release, Beta testing, and skills in collaboration

LEADERSHIP

Korean Teaching Assistant (TA)

Aug 2023 – May 2024

University of Maryland College Park

College Park, MD

- Conducted Korean language and culture classes for **20+ students**, using interactive methods to boost proficiency
- Coordinated with faculty to design and update curriculum, ensuring alignment with educational standards

Front Observer & DMZ Police

Jan 2021 – July 2022

Republic of Korea Army

Paju, South Korea

- Served 5 months at the **DMZ** as a front observer with the **1st Artillery Division** in a high-security border zone
- Promoted to **Sergeant**, led team operations, and received an **honorable discharge** for **discipline** and **dedication**

TECHNICAL SKILLS

Languages: Java, Python, Flutter, Dart, Swift, C, JavaScript, HTML/CSS, MIPS, OCaml, Rust, React, TailwindCSS

Developer Tools: VS Code, Visual Studio, Eclipse, Android Studio, Xcode, Matlab, Grace