

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, 2024-2025 Dean's List
- **Courses:** Algorithms, Application of Linear Algebra, Artificial Intelligence, Machine Learning, Computer and Network Security, Applied Probability and Statistics, Organization of Programming Languages, Data Science

EXPERIENCE

EOB Automation Processor

May 2025 – Present

Software Engineer

College Park, MD

- Built a **Python OCR pipeline** to extract key data from EOB PDFs for **10+ insurers** including Guardian and MetLife, automating patient, ADA code, service date, and payment extraction
- Achieved **95%+ accuracy** and reduced processing time by **70%** for large multi page documents through a dual OCR architecture
- Built an **asynchronous task execution service(ATES)** by utilizing Celery workflows that handle **6 EOB documents** at once
- Developed RESTful APIs with **Django REST Framework** to supply OCR data to an Electron app, enabling revenue dashboards, claim tracking, and unpaid claim filtering

InZone

May 2025 – Aug 2025

Software Engineer Intern

College Park, MD

- Designed and integrated **AI-driven character generation algorithms** into the frontend, delivering an immersive experience that significantly boosted user engagement and retention
- Implemented **ChatGPT, Ready Player Me, and Meshy AI** to create fully customizable 3D avatars
- Integrated **ElevenLabs** with Firebase to enable real-time voice chats via in-app currency

NEMO Research Assistant

Feb 2025 – May 2025

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

- Migrated iOS and Android apps to **Flutter**, improving cross-platform support and increasing **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

August | Software Engineer, Flutter Lead Developer

Jun 2023 – May 2025

- **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

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**

TECHNICAL SKILLS

Languages: Java, Python, Flutter, Dart, JavaScript, HTML/CSS, OCaml, Kotlin, React, TailwindCSS

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