Kyung Sub Lee

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EDUCATION

CORNELL UNIVERSITY, College of Computing and Information Science   **Ithaca, NY**
Bachelor of Science in Information Science | GPA: 3.9   Expected May 2026
Concentrations: Data Science, Interactive Technologies, and User Experience; Minor: Cognitive Science
Relevant Coursework: Ubiquitous Computing, Rapid Prototyping, Object-Oriented Programming & Data Structures
Activities: Teaching Assistant: Intro to Web Design and Programming, Design Consulting at Cornell: Consultant

PROFESSIONAL EXPERIENCE

Massachusetts Institute of Technology Media Lab, Fluid Interfaces Group   **Cambridge, MA**
Research Intern   Jan. 2025 - Present
- Conducting brain-computer interface research with Dr. Nataliya Kosmyna, applying EEG tools and Next.js applications to advance human-AI interaction.

Machine Poetics Group   **Ithaca, NY**
Research Assistant   Jan. 2025 - Present
- Pioneered research on augmenting AI agents with synthetic biosignals under Dr. Sang Leigh, discovering through 41 user studies that vibrotactile heartbeat cues dramatically alter high-stakes social decisions - participants were 7x more likely to accuse AI suspects exhibiting elevated heart rates.
- First-authored paper "I feel it is nervous?: Parasomatic Interaction with AI Agents" submitted to TEI 2026.

Melo Tomorrow   **Seoul, South Korea**
CEO & Co-Founder   Dec. 2021 - Dec. 2024
- Founded and scaled adaptive clothing startup for individuals with autism, leading 7-person team to develop 160+ SKUs with sensory-friendly stitching, securing B2B contracts with 2 organizations and celebrity brand partnerships with Korean hip-hop artists (lilgimchi).
- Drove end-to-end product development from UI/UX design (50+ Figma wireframes) to React.js implementation, while executing digital marketing strategy that achieved 2% CTR on Meta campaigns.

Architectural Robotics Lab   **Ithaca, NY**
Research Assistant   Jan. 2024 - May. 2025
- Conducted user research across 4 human-robot interaction projects with Dr. Keith Green, including 60+ interviews and user studies spanning AR dental applications (DentAR), robotic interior design (RobotRoom), and reflective mindfulness robotics (MirrorBot).
- Conceptualized MindfulBot through synthesis of mindfulness and HCI literature, developing functional specifications, form factor proposals, and interaction paradigms for wellness-focused robotics.

InnovatEV Global   **Dallas, TX**
Systems Engineer Intern   Jun. 2024 - Aug. 2024
- Developed React.js-based data distribution platform for Hyundai and Toyota, streamlining automotive data sharing workflows and scheduled for deployment in 10,000+ vehicles by Q2 2025.
- Transformed manual inspection process into automated reporting system, progressing from no-code prototype to production React.js application now used daily by 20+ team members, reducing report generation time by 30%.

PROJECTS

TruScoop
Cornell AppDev Hackathon Challenge   *Best Overall*
- Built news bias detection app using NLP and machine learning, implementing TF-IDF vectorization and classification algorithms to analyze political orientation of articles with 83% accuracy
- Won 1st place among 33 teams (150+ participants) through rapid iteration - designed 30+ wireframes, conducted 2 rounds of usability testing, and delivered a functional prototype.

SKILLS, LANGUAGES, AND INTEREST

Design Tools: Figma, Fusion 360, Adobe Creative Suite (Illustrator, Photoshop, After Effects)
Programming Tools: Arduino, Python, Java, Swift, R, JavaScript, TypeScript, Angular, ReactJS, Next.js, Tailwind CSS
Interests: Rock climbing, coffee brewing, sailing, swimming, basketball, board games