Justin Lee

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EDUCATION

University of Maryland, College Park College Park, MD
Bachelor of Science in Computer Science, Minor in General Business *Expected: May 2027*
- Awards and Achievements: Presidential Scholarship ($50,000 merit-based scholarship), VIP Research Course (1 of 12 students selected), Research to be Cited in a 2026 Academic Publication

EXPERIENCE

Data Visualization Research Assistant May 2025 – Present
Digital Engagement Lab - Philip Merrill College of Journalism *College Park, MD*
- Conducted cross-functional research combining journalism, computer science, and cognitive psychology to enhance digital news engagement through data-driven strategies
- Designed and implemented the Multi-Source News Dashboard, a full-stack analytics platform that has scraped 1,000+ news articles from sources like CBS, ABC, and BuzzFeed
- Projects featured in numerous conferences, obtaining interest and research support from 3 major local news outlets

PROJECTS

AI Aesthetic Scorer | *Python, Pytorch, Streamlit, Docker* June 2025
- Designed the ML pipeline to extract 10+ visual features using ViT, enabling nuanced assessment of composition, color, and subject appeal, leading to 95% accuracy when tested
- Built a complete MLOps pipeline in Python and PyTorch, implementing advanced bias correction algorithms that reduce brightness bias influence by 40% and improve scoring accuracy by 15-20% for diverse lighting conditions

Multi-Source News Dashboard | *Python, BeautifulSoup, Playwright, AWS* Apr 2025
- Engineered a comprehensive web scraping system using Python and Playwright to extract news articles from legacy and newer news sources, implementing intelligent rate limiting to collect 1,000+ articles multiple content categories
- Built a data processing pipeline with BeautifulSoup and text cleaning algorithms, filtering out ads while capturing 15+ data points per article, with all data automatically stored and processed on AWS infrastructure

MealMatch | *Vue.js, JavaScript, Express, Spoonacular API* Jan 2025
- Developed a full-stack web application using Vue.js and Express that allows users to find 5,000+ recipes based on available ingredients, featuring real-time API integration with Spoonacular's recipe database
- Implemented responsive design principles and user interface elements including dynamic ingredient tags, modal recipe displays, and error handling, enhancing user experience

ORGANIZATIONS

Korean Student Association May 2024 – Present
President — Former Fundraising Chair *College Park, MD*
- Lead strategic planning and organizational development, transforming internal programs to enhance inclusivity, member retention, and overall community engagement aimed towards a general student body of 250+ members
- Collaborate with campus departments, faculty advisors, and external organizations to secure sponsorships, increase funding, and expand KSA's campus presence

Kappa Theta Pi May 2025 – Present
Member *College Park, MD*
- Professional Technology Fraternity focused on technical and professional development
- Actively participate in professional development workshops, community service, and philanthropy events aimed at fostering growth in technical proficiency, career readiness, and community engagement

TECHNICAL SKILLS

Cloud & Data Platforms: Firebase, SQL, AWS (RDS)
Languages: Java, Python, C, JavaScript, OCaml, Rust
Web Development: React, Vue, Node.js, Express, Streamlit
ML & Data Science: PyTorch, Scikit-learn, Pandas, NumPy
Other: OpenCV, BeautifulSoup, Docker