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 7,300+ 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

Multi-Source News Dashboard | *Python, Streamlit, PostgreSQL, AWS Aurora* Aug 2025
- − Built a web scraping system using Python and BeautifulSoup to collect 7,300+ articles from 4 major news sources (ABC News, CBS News, The Tab, BuzzFeed) with intelligent rate limiting and data cleaning
- − Developed a real-time visualization dashboard using Streamlit and Plotly with 6+ interactive charts, automated 10-minute data refresh, and comprehensive analytics covering 4 news sources across 2+ months of data collection

AI Aesthetic Scorer | *Python, Pytorch, Streamlit, Docker* Jun 2025
- − Designed the ML pipeline to extract 7+ visual features using ViT, enabling nuanced assessment of composition, color, and subject appeal, leading to 75% accuracy when tested
- − Built a complete MLOps pipeline in Python and PyTorch, implementing advanced bias correction algorithms that reduce brightness bias influence by 30% and improve scoring accuracy by 10-15% for diverse lighting conditions

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, PostgreSQL, AWS (Aurora, 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