

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 5-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 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

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