

# 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 Professional Technology Fraternity

May 2025 – Present

*Corporate Chair - Professional Development*

*College Park, MD*

- Help lead corporate partnerships by creating direct recruiter pipelines, hosting company presentations, and coordinating cross-fraternity professional workshops to connect members with diverse industry perspectives
- Drive career readiness through alumni panels, resume reviews, interview prep sessions, and the revitalization of key resources including the alumni network, and interview information database

## TECHNICAL SKILLS

**Cloud & Data Platforms:** Firebase, PostgreSQL, AWS (Aurora, RDS)

**Languages:** Java, Python, C, JavaScript, OCaml, Rust

**Web Development:** React, Vue, Node.js, CSS, HTML, Express, Streamlit

**ML & Data Science:** PyTorch, Scikit-learn, Pandas, NumPy

**Other:** OpenCV, BeautifulSoup, Docker