# Kevin Kim

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## Education

**University of California San Diego** — La Jolla, CA
*Master of Science in Computer Science and Engineering* — *Sep. 2026 - June 2028*

**Emory University** — Atlanta, GA
*Bachelor of Science in Neuroscience, Minor in Computer Science* — *Aug. 2022 – May 2026*

- **Relevant Coursework:** Data Structures & Algorithms, Computer Systems/Architecture, Linear Algebra, Probability & Statistics, Discrete Mathematics, Data Mining, Database Systems, Software Engineering

**Oxford College of Emory University** — Oxford, GA
*Associate's in Liberal Arts* — *Aug. 2022 – Dec. 2023*

## Research Experience

**Artificial Intelligence Research Fellow** — Jan 2025 - Present
*Emory Center for AI Learning* — *Atlanta, GA*

- Developed an NLP pipeline with Distilled-Bert and Rasch IRT Analysis to decipher non-binary datasets on student assessment and student feedback to gauge efficacy of Emory's new Chemistry Unbound Curriculum
- Engineered a Sports Analytics stacked-ensemble model that leverages base learner models of XGBoost, MLPNN, and CNN with a meta-learner shallow depth XGBoost to guarantee high predictive accuracy of an explosive NFL run through custom feature engineering of spatiotemporal data
- Presented posters at biannual research showcase and awarded best poster award multiple times & AI Xperience fellowship

**Health Economics Research Assistant** — Sep 2022 – Present
*Emory University* — *Atlanta, GA*

- Compiled data concerning mental health insurance payments to study mental health provider reimbursement rates and conducted research on nationwide mental health parity law databases
- Written extensive reports and literature reviews on many topics such as the closing of the Wellstar Medical Center
- Built various statistical econometric models leveraging national databases such as MEPS or AHRF data to explore various issues in mental health access inequality
- Currently preparing a manuscript based on the same mental health provider insurance acceptance research which I presented at SRSA Conference 2024

**Oncology Research Assistant** — May 2023 - Sep 2023
*Nell Hodgson Woodruff School of Nursing (Emory University)* — *Atlanta, GA*

- Led qualitative analysis using Dedoose to help architect a web-based intervention for psychoneurological symptoms of colorectal cancer patients after screening dozens of patients and collecting/entering data
- Co-authored a study published in Cancer Nursing (internationally recognized medical journal) on the web-based intervention we had developed

## Teaching and Mentoring Experience

**AI Data Lab Student Lead** — Jan. 2026 – Present
*Emory Center for AI Learning* — *Atlanta, GA*

- Mentoring undergraduate student researchers within the lab in their research projects.
- Preparing lessons and workshops for undergraduate students who are less familiar with AI and various ML frameworks & tools.
- Works with various project sponsors from Invest Atlanta to Nell Hodgson Woodruff School of Nursing to build data-backed analysis and solutions to their questions and problems.

## Publications

**Perceptions and Needs for a Technology-Based Dyadic Intervention on Symptom Management Among Patients With Colorectal Cancer and Their Caregivers: A Qualitative Study** — Epari, A., **Kim, K.**, Xiao, C., et al. *Cancer Nursing.* (2024). DOI: 10.1097/NCC.0000000000001429

## Posters/Presentations

**Regional variation in the acceptance of insurance by mental health professionals: Evidence from MEPS**, *Southern Regional Science Association (SRSA) Conference*, 2024.

**A Multi-Modal Evaluation of Chemistry Unbound using IRT and Sentiment Analysis**, *Emory Center for AI Learning Research Showcase*, 2025.

**Boom! Using Explosive Plays to Predict the Next Breakout Running Back**, *Emory Center for AI Learning Research Showcase*, 2025.

## Honors/Awards

Emory AI X.perience Fellowship (Selective Cohort)

Best Poster Award (Emory AI Learning Showcase)

## Technical Skills

**Languages**: Java, Python, SQL, PostgreSQL, JavaScript, HTML/CSS, R, Swift, C, C++
**Frameworks**: React, Node.js, Pytorch, Prisma, Tensorflow, Expo, Prisma
**Developer Tools**: Git, Docker, Linux, VS Code, Android Studio, Firebase, Vercel, Asperite, MongoDB, AWS, Kubernetes, GitHub Actions, Power BI
**Libraries**: pandas, NumPy, Matplotlib, scikit-learn, ChromaDB, JUnit, MaterialUI

## Extracirriculars

Staff Writer, Emory Journal of Neuroethics

Member of On-Campus Acappella Group, Oxappella

Committee Member, Korean Undergraduate Student Association (KUSA)

## Projects

**Music Social Media App/Website** | *React Native, JS, PostgreSQL, Expo, Python* December 2025 - Present

- Built a full-stack application that uses a frontend hosted on Expo and a backend hosted on Vercel supports use on Android and Web. This social media app helps user look for songs, create playlists, and connect with other users with similar music tastes. The song database was made with the curation of opensource MusicBrainz and optimized search created using PostgreSQL and GIN index and fts word vectors.
- Developed a RandomForest-based model, optimized through cross-validation and hyperparameter tuning, for recommendations for the home feed. The model was trained on the Spotify Million Playlist Challenge Dataset.
- Currently working on an improved stacked-ensemble model to build the recommendation system that draws upon two-tower system, spectrogram analysis, etc. to build more effective recommendations.

**Virtual Pet Simulator Website and RaspberryPi** | *React, HTML/CSS, Javascript, Python* Jan 2026 - Present

- Developed a full-stack web application to enable users to interact with and share virtual pets. The frontend was hosted on Expo and a backend engine hosted on Vercel with the Database hosted on Supabase.
- Created animated sprite sheet using Asperite and used Javascript sprite sheet animation with HTML5 canvas
- Working to integrate a RaspberryPi component using a E-ink paper display for a DIY version that people can utilize to create their own personalized experience with a smaller scale version
- Integrating AI using a simpler linear regression model to predict how fast the pet's metrics will drop as a result of time or actions. Working on more integration with a reinforcement learning model on pet behavior randomization