Eric Ahn

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Education

Emory University Aug 2021 – May 2025
Bachelor of Arts in Computer Science & Minor in Mathematics Atlanta, GA
Relevant Coursework: Systems Programming, Machine Learning, Software Engineering Practicum, Data Structures & Algorithms, Computational Linguistics, Applications of Machine Learning

Experience

AI Developer Intern Aug 2024 – Jan 2025
Agentic Health / Sarker Lab / Vital Labs Atlanta, GA
- Engineered real-time knowledge graphs integrating dynamic relationships for healthcare decision-making systems.
- Optimized large language model (LLM) context pipelines to enhance diagnostics and IoT-driven patient care.
- Collaborated on integrating scalable NLP models with real-time data sources for clinical applications.

Course Practicum Team Lead Jan 2024 – May 2024
Emory Computer Science Practicum Atlanta, GA
- Led a software engineering team developing an AI-based application aligning with Agile development practices.
- Coordinated sprint reviews, implemented project milestones, and ensured efficient version control workflows.

Projects

Jarvis — Privacy-Focused Virtual Assistant
- Developed a macOS and iOS virtual assistant for smart device control and voice command recognition.
- Built frontend interfaces in Swift, integrating JSON data handling and user customization features.
- Led iterative updates adding enhanced iOS database connectivity and modular smart device management.

CareerAi — AI-Enhanced Resume & Job Matcher
- Designed and deployed a web application integrating resume analysis, job scraping, and NLP-based matching.
- Leveraged BeautifulSoup and Playwright for scraping job listings while handling complex CAPTCHA challenges.
- Implemented similarity scoring to optimize resume relevance for market trends and job descriptions.

Agentic Health Knowledge Graph Systems
- Constructed dynamic knowledge graphs using graph neural networks and data pipelines.
- Focused on healthcare applications, improving data interpretability and real-time decision support.

Mortality Prediction Pipeline — Ensemble Machine Learning
- Developed a machine learning pipeline to predict age-specific mortality rates using public IHME datasets.
- Implemented regression models and ensemble techniques (stacking, bagging) to improve predictive accuracy.
- Conducted model evaluation using MAE, RMSE, and R^2; compared Python-based and WEKA results for validation.

Skills

Programming Languages: Python, Java, Swift, C++
Frameworks & Tools: Flask, MongoDB, Firebase, Git, Unix, Playwright, BeautifulSoup
Technologies: Machine Learning, Ensemble Learning, NLP, Graph Neural Networks