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EDUCATION

Emory University • *Bachelor of Science in Mathematics and Computer Science 4.0/4.0* May 2027
- Coursework: Data Structures and Algorithms, Machine Learning, Database Systems, Computer Architecture, Linear Algebra, Multivariable Calculus

EXPERIENCE

Eva Eco System, Inc. | Django Developer Intern Jan 2025 – Present
- Designed and developed relational models, role-based JWT email auth, and API endpoints for a valet-driving platform.
- Managed environment-based configuration and database migration workflows across dev, staging, and production, reducing deployment errors by 80%.

NLP Suite Team | Student Research Assistant Aug 2024 – Jan 2025
- Enhanced the NLP-Suite tool by integrating Stanford CoreNLP, Stanza, WordNet, and MALLET within Docker.
- Optimized file handling and operations, cutting database analyzer processing time by 150% with efficient algorithms.

Sionic AI | ML Research Intern May 2024 – Jan 2025
- Researched hard negative mining (HNM) strategies to improve contrastive learning for the company's RAG pipeline.
- Boosted BGE-M3 fine-tuning by 4.87 points on Korean MTEB retrieval task with a positive-aware HNM strategy.
- Fine-tuned pretrained models, achieving an 85.73 BLEU in Korean grammar error correction, outperforming SOTA models GPT-4 (75.03) and HCX-3 (71.24); presented findings at PACLIC 38.

PROJECTS

WOW-Centreville (WIP) • wowcentreville.com • github/project-emory/wow-centreville
- Full-stack ordering platform for local business, streamlining order management and online payment.
- Used to teach members design, frontend frameworks, UI/UX, backend development, workflows, and deployment.
- Technologies: Next.js, TypeScript, TailwindCSS, Django, Python, Figma, GitHub Pages, GitHub Actions

Rendezvous • github/esunn0412/rendezvous
- Pinterest and Reddit-based full-stack featuring CRUD operations, user authentication, and deployed on AWS via Docker.
- Technologies: Django, Docker, AWS EC2, Bootstrap, HTML/CSS, Python, GitHub

Good Hangul • goodhangul.sionic.ai
- Korean grammar error correction platform powered by the finetuned sLLM research model: nllb-200-ko-gec-3.3B.
- Built a Chrome Extension that automatically detects inputs and displays correction retrieved from koGEC API.
- Technologies: Typescript, Tailwind CSS, Node.js, Flask, Python, PocketBase DB, Docker, Javascript, Chrome API, Webpack

MBTI Dating Simulation App • github/Dolbonln/MBTI-Date-Simulation
- AI dating simulation app using Langflow based two stage RAG pipeline to generate MBTI-personalized conversations.
- Implemented dynamic, context aware dialogue, combining embedded personality traits with conversational memory.
- Technologies: Python, Streamlit, Langflow, Claude API, Cohere, Pinecone, Stable Diffusion

LEADERSHIP AND COMMUNITY ENGAGEMENT

Project Emory | Co-Hackathon Director/Director of Projects Aug 2023 – Present
- Teach full-stack development to promote technology literacy and provide project experience to 20+ Emory students
- Organize Emory Hacks, Emory's first Programming Hackathon on Emory campus hosting 70+ participants.

Emory Competitive Programming Club | Member Aug 2024 – Present
- Hone algorithmic problem-solving skills in Java to compete in NAQ and ICPC. Placed 2nd on site of ICPC division 2.

ADDITIONAL SKILLS

Languages: Java, Python, JavaScript, Typescript, SQL, C, HTML/CSS, ARM assembly
Frameworks/Libraries: React, NodeJS, Bootstrap, Django, REST, FastAPI, Flask, Transformers, PyTorch, LangChain
Tools: Git, Linux, Docker, AWS, CI/CD, Agile