

GRACE LI

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EDUCATION

Columbia University – New York, NY **Graduating May 2028**
Double Major: Computer Science & Mathematics | Minor: Dance Major GPA: 3.98/4
Coursework: Advanced SWE (Java), AI (Python), Advanced Programming (C), DSA (Java), Computational Linguistics (Python), Discrete Math, Modern Algebra, ODE, Multivar Calc, Linear Algebra & Probability
▸ **Activities:** Girls Who Code (Engagement Chair), Women in Computer Science (Community Chair), Society of Women Engineers, Columbia Organization of Rising Entrepreneurs, Columbia Ballet Collaborative, Columbia Repertory Ballet, Choreography Lab, Columbia University Ballet Ensemble

WORK & RESEARCH EXPERIENCE

Argonne National Laboratory – Mathematics & Computer Science Division *Researcher* **Sept 2025 – Present**
▸ Extending summer work to large-scale testing on Frontier, scientific applications, & other collectives
SULI Intern for the U.S. DOE | Supervisor: Dr. Mike Wilkins, Maria Goepfert Mayer Fellow **May – Aug 2025**
▸ Integrated AMD's RCCL into Argonne's MPICH to enable GPU-accelerated MPI for distributed AI workloads
▸ Designed & evaluated hybrid communication, achieving over 60x speedup in collective Allreduce latency
University of Chicago – Large-scale Sustainable Systems Group **Sept 2025 – Present**
▸ Working with Dr. Alexander Fell to implement UDSHMEM (utilizing novel UpDown hardware architecture)
Columbia University – Data, Agents, and Processes Lab **Sept 2025 – Present**
▸ Building Cortex, a workflow-aware serving system for agentic LLMs, leveraging SGLang, NL2SQL, & AWS
Nori Software Engineering Intern – New York, NY **Oct 2025 – Present**
▸ Built core platform features (search, Explore page) using Node, React, Supabase, TypeScript, Transformer.js
▸ Developed scalable data-processing pipelines using vectorization & LLM analysis for real customer data
VenuAI Software Engineering Intern – Remote **Dec 2024 – Present**
▸ Shipped full-stack features using Django + React (e.g., secure sign-on) & improved onboarding/user flows
▸ Designed & optimized LLM prompts to enhance matching accuracy & overall system robustness
Columbia University – Computer Science Department *TA (COMS1002/1012)* **Sept 2025 – Present**
▸ Led recitations, graded assignments, and held office hours for 250+ students (NLP/Digital Humanities focus)
curaJOY Impact Fellow *Tech Cohort* **July 2025 – Oct 2025**
▸ Curated cyberbullying dataset, integrated annotation UI, trained MLdetection model, deployed on AWS
Amikka Learning | Bethesda Scholars *Private Tutor – Remote* **Jan 2025 – Present**
▸ Provided individualized SAT/ACT & AP (Calculus, Chinese, CS, Physics) tutoring to high school students
Crew Dog Campus *Partner – Remote* **Oct 2024 – Present**
▸ Collaborated with student clubs to streamline apparel orders, contributing to > \$40k in sales in 1 semester

PROJECTS

Cloud-Deployed Ledger App *Team of 5* **Oct 2025 – Present**
▸ Built a production-ready ledger app using Java & REST APIs, w. unit/integration tests, PMD, Maven, JaCoCo
▸ Implemented backend database on GCP & deployed app to the cloud with reliable demo-ready functionality
Singular Value Decomposition for Facial Recognition *Personal Project* **March – May 2025**
▸ Built webcam-based computer vision app using SVD & applied cosine similarity on 10,000-image dataset
Linguistic Classifiers & NLP Models *Personal Project* **Nov – Dec 2024**
▸ Trained a logistic regression model with TF-IDF to classify Yelp review ratings by sentiment & tone
▸ Created a word2vec model to explore word semantics in biblical text & built a news classifier with Python

AWARDS & SKILLS/INTERESTS

National Merit Scholar; Dean's List; President's Volunteer Service Award; YoungArts Finalist in Dance
Programming: Java, C, Python, JavaScript, TypeScript, Bash, Kotlin, SQL, R, C++, HTML, Git (CI/CD), Node.js, Transformer.js, Uvicorn, Spring, Rest API, Django, React, Maven, Docker, AWS, GCP, Supabase, MPI, HPC, TensorFlow, SGLang, HuggingFace, PyTorch, Keras, PMD, unit/integration testing, prompt engineering
Languages: English (native), Mandarin (fluent/bilingual)
Interpersonal: Communication, collaboration, attention to detail, time management, adaptability, leadership
Interests: Ballet, HPC, accessibility AI, classical music, photography, cooking/baking, travel, educational equity