

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 Goeppert 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 ML detection 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, Unicorn, 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	