Kevin B. Liu

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Education

Princeton University — Princeton, NJ
Bachelor's in Computer Science — *Expected May 2028*

Coursework: Programming Systems, Data Structures & Algorithms, Statistics, Vector Calculus, Linear Algebra
Organizations: Hoagie Software Development Club, TigerApps, HackPrinceton, Princeton Powerlifting, Sympoh Dance Co.
Technologies: Tensorflow, PyTorch, Keras, AutoML, Python, React, Tailwind, Typescript, Javascript, Java, C, C++

Experience

Amazon Web Services — May 2025 - Present
Software Development Engineer Intern – FBA Inventory — *Bellevue, WA*

- Built internal APIs to support FBA inventory workflows, improving response time by 37%.
- Refactored reconciliation pipeline, reducing technical debt and improving test coverage by 25%.
- Analyzed shipping trends with product and data science teams to inform capacity forecasting.

Ketspen - Game-Changing Agentic Research — Jun 2025 – Present
Founding Engineer — *Remote*

- Building MVP for AI-powered research tool with semantic search and collaborative review features.
- Designed context injection framework to boost LLM response relevance by 4.6x.
- Developed PDF.js-based document viewer with React and Supabase for real-time annotation.
- Driving roadmap, branding, and go-to-market strategy; launched alpha with early research users.

Bloomberg L.P. — Summer 2024
Software Engineering Intern – Core Products (DT-CADEA) — *Princeton, NJ*

- Developed a Random Forest-based ML model to classify corporate 6K/8K filings, accelerating classification by 55% and boosting accuracy to 86%.
- Engineered JIRA-based workflow tools with 99.9% uptime, enhancing data transparency for 7 teams and 5k+ internal users.
- Led technical design reviews and collaborated with cross-functional stakeholders across Data Acquisition and Finance.

Software Engineering Intern – Financial Instruments (DT-FI) — *Summer 2023*

- Built a real-time market feed platform using Next.js and React to track treasury bonds, improving remediation speed by 4x.
- Enhanced front-end UI and backend stability, eliminating all user-input crashes and reducing latency and memory usage.
- Led Agile sprints and coordinated Linux infrastructure migration with Data Tech teams.

AT&T Labs Research — Fall 2023
AI Research Intern – NLP & Intelligent Agents — *Middletown, NJ*

- Designed autonomous agents with Mixture-of-Experts LLMs via Gentopia to parse enterprise documents independently.
- Reduced document analysis time by 85% with potential for 11x cost savings; piloted tool on AT&T enterprise data.
- Partnered with data scientists and PMs to iteratively improve internal AI tooling across multiple departments.

Johns Hopkins University – UCredit.me — Fall 2022
Full Stack Software Engineer — *Baltimore, MD*

- Built responsive full-stack course selection platform using React and AWS Lambda for 6k+ students.
- Integrated backend APIs and frontend components in a CI/CD DevOps environment with iterative UX feedback.

Projects

Online Monmouth Math Competition (501(c)(3)) — Founder, CTO

- Co-founded nonprofit running annual math competitions, providing free educational materials globally.
- Secured $32k in sponsorships, 2k+ signups, 6k+ community members.
- Led international volunteer student team to develop OMMC website, full-stack cloud database (OMMC Atlas), and Next.js test portal (OMMC Test Portal), using the T3 stack (TypeScript, TRPC, Tailwind.css).

Publications

Liu, K. (2023). Utilizing Checkpoints With Deep Neural Networks For Enhanced Speech Transcription in Neurodegenerative Diseases: A Case Study on Huntington's Disease. *International Young Researcher's Conference, Pre-Collegiate Global Health Review.* doi.org/10.34614/2023IYRC$_S$52

Liu, K., Kalagarla, A., van der Schaar, E., Shroff, F., Manoharan, D., & Reihani, A. (2023). Probing Anisotropic Thermal Conductivity in Lithium-Ion Polymer Batteries. *IEEE MIT Undergraduate Research Technology Conference.* doi.org/10.1109/URTC65039.2024.10937635