KATHIR MEYYAPPAN

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EDUCATION

University of Chicago - Mathematics + Computer Science ; GPA: 3.96   *September 2022 - May 2026*

Relevant Coursework: Database Systems, Machine Learning, Operating Systems, Data Structures + Algorithms, Abstract Algebra, Real Analysis, Linear Algebra, Discrete Mathematics, Calculus, Probability Theory
Leadership/Involvement: Algo Group (Board), Japanese Animation Society (Vice President), ChiData (Researcher)
Awards: Robert Maynard Hutchins Scholar, Dean's List all years, 3x AIME Qualifier

EXPERIENCE

Arrowstreet Capital   **Boston, MA**
Quantitative Developer Intern   *June 2025 - August 2025*

- Incoming, Summer 2025

ChiData   **Chicago, IL**
Undergraduate Researcher   *October 2024 - Present*

- Infrastructure-related work on relational database system CrocodileDB under Prof. Aaron Elmore @ UChicago.
- Implemented physical plan hashing and query result caches in Rust to boost query efficiency and performance.

Amazon   **Palo Alto, CA**
Software Development Engineer Intern   *June 2024 - August 2024*

- Increased DataZone's database scalability, using bitmap algorithms to speed up numeric aggregation queries by over 20x.
- Implemented histogram generation feature, allowing for more granular client-side access to numerics in the database.
- Architected Entity Store inspection utilities, facilitating the use of REST-based database communication protocols.
- Created 7 performance critical endpoints, enabling access to internal DynamoDB and S3 storage frameworks for sev forensics.

Institute of Politics   **Chicago, IL**
Software Developer   *October 2023 - January 2024*

- Identified malicious false-citation practices in ~200 political flyers with University of Chicago Institute of Politics.
- Utilized LLM (Llama2) + regex to identify 1000+ misinformation sources and pipeline data into Google Drive workflow.

Dräger   **Andover, MA**
Software Engineer Intern   *June 2023 - September 2023*

- Solved defect-tracking bottleneck in product lifecycle by automating issue reporting, reducing Jira traffic by 85%.
- Developed, documented, and deployed internal desktop application that streamlines quarterly FDA communication process.
- Wrote OpenXML scripts (C#) in backend to execute 2500+ JQL queries per day (in Jira database) to generate and file reports.

PROJECTS

mangalert.com - Manga Serialization Notification Service | *JavaScript, Python, Google Cloud Platform, Firebase*

- MangAlert notifies 50+ users per month (via email and website) of followed anime/manga serializations that have ended.
- Built REST API with Node (Express) and deployed + hosted site, scheduled database/email updates, etc. using GCP.
- Securely hosted user data and media info in Firebase and displayed profile data to users with a React + TypeScript frontend.

SKILLS

Programming Languages: Rust, Python, C/C++, Go, JavaScript, C#, R, SQL
Tools/Tech: .NET, AWS, Google Cloud Platform, Node.js, Git, SVN, Jira, Firebase, Microsoft Visual Studio, OpenCV
Languages: English, Japanese, Tamil