

# Kangyu Feng

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## EDUCATION

<b>University of Illinois Urbana-Champaign</b> <i>Master of Computer Science: Siebel School of Computing and Data Science</i>	Aug. 2024 – Dec. 2025 GPA: 4.00
• Research/Teaching Assistant: Fall 2024   Spring 2025   Fall 2025 • Advisor: Prof. Mariana Silva	

<b>University of Illinois Urbana-Champaign</b> <i>Bachelor of Science: Computer Science in Grainger Engineering</i>	Aug. 2020 – May 2024 GPA: 3.98
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## EXPERIENCE

<b>Software Developer Intern</b> <i>PrairieLearn, Inc.</i>	May 2025 – Aug. 2025 Champaign, IL
• Engineered the image capture element and its backend API to enable $\sim 1\text{ ms}$ image submissions for <b>180k+</b> students during high-concurrency exams, reducing manual grading turnaround from <b>1 week</b> to <b>1 day</b> . • Developed full-stack features with <b>TypeScript, React, HTML, and WebSockets</b> on the frontend, and <b>Python (Flask) and PostgreSQL</b> on the backend, enhancing platform interactivity and scalability. • Designed an automated feedback and autograding pipeline using <b>AWS Lambda</b> for course-specific problem sets, improving grading efficiency and reducing human effort in code grading by around <b>30%</b> .	
<b>Research Assistant</b> <i>CS Education Laboratory</i>	Sept. 2024 – Present Champaign, IL
• Engineered the <b>POGIL</b> collaborative learning framework in online environments and designed a <b>JavaScript</b> -based role selection interface, leading to an increase in average student performance from <b>94%</b> to <b>96%</b> . • Conducted large-scale interviews with professors and students across <b>4</b> departments to assess CS1 course needs • Designed and optimized new CS1 curriculum and question sets used for around <b>1000</b> students per semester • Contributed to the <b>Online Calculus Platform</b> , a <b>SIIP</b> -funded project ( <b>\$0.5M</b> ) advancing scalable online learning infrastructure for large-enrollment calculus courses.	
<b>Specialist Tech Intern</b> <i>ANE Logistics</i>	June 2024 – Aug. 2024 Hangzhou, China
• Prototyped <b>OneAPI</b> , a unified query interface built on <b>Apache Calcite</b> to integrate multiple internal data APIs, improving the maintainability and scalability of the company's data management platform. • Developed and standardized a <b>Java</b> -based data access layer to abstract heterogeneous data sources, including <b>MySQL, Hive, ElasticSearch</b> , reducing maintenance costs by approximately <b>50%</b> .	

## PROJECTS

<b>Hybrid Distributed File System (HyDFS)</b>   <i>Go, Distributed Systems</i>	Jan. 2025 – May 2025
• Developed <b>HyDFS</b> , a hybrid distributed file system inspired by <b>HDFS</b> and <b>Cassandra</b> , integrating consistent hashing and replication across a cluster to ensure scalability and fault tolerance. • Implemented <b>append</b> , <b>merge</b> , and <b>re-replication</b> protocols supporting per-client ordering, eventual consistency, and automatic data rebalancing under node failures.	
<b>StudyBuddy</b>   <i>Python, JavaScript, React, MongoDB, Docker, Node.js, GCP</i>	Aug. 2024 – Jan. 2025
• Developed a full-stack application for study-partner matching based on age and education-level compatibility. • Built secure authentication with <b>Google Firebase/Google Cloud Platform</b> ; designed and implemented <b>MongoDB</b> schema and established cloud database connections with full <b>CRUD</b> functionality • Developed a <b>React + TypeScript</b> front-end module for post creation with real-time form validation, RESTful API integration via <b>Axios</b> .	

## TECHNICAL SKILLS

<b>Languages:</b> Java, Python (pandas, NumPy, Matplotlib, TensorFlow, PyTorch), C/C++, TypeScript, JavaScript, HTML/CSS, Go
<b>Frameworks:</b> React, Node.js, Flask, Express.js, CUDA, FastAPI
<b>Developer Tools:</b> Git, Docker, Maven, Google Firebase, Google Cloud Platform, Amazon Web Services (AWS), Postman, MySQL, MongoDB, PostgreSQL
<b>Theoretical Background:</b> Algorithms, Machine Learning, Deep Learning, Distributed Systems, Operating System