

David(Jiahao) Fu

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EDUCATION	University of Illinois at Urbana-Champaign	Expected Graduation Date: May 2025
	<i>Bachelor of Science in Computer Science</i> <ul style="list-style-type: none">Related coursework: calculus, data structure, algorithms, computer architecture, machine learning, computer vision, database system, reinforcement learning, natural language processingDean's List, Fall 2021, Spring 2022, Fall 2022, Spring 2023James Scholar, Grainger College of Engineering	GPA: 4.00/4.00
SKILLS	C++, Java, Python, Git, PyTorch, LaTeX	Advanced
	C, HTML, CSS, Linux, JavaScript, SQL, React, TensorFlow	Intermediate
	Adobe Photoshop, MATLAB, AWS	Basic
EXPERIENCES	IBM-Illinois Discovery Accelerator Institute	Urbana, IL
	<i>Undergraduate Intern</i>	Sep 2024 - Present
	<ul style="list-style-type: none">Mentored by Prof. Yuxiong Wang and Prof. Vikram Adve and work with PhD and master students to create a state-of-the-art model for domain specific language generation by leveraging techniques like program synthesis, program verification, and model merging	
	UIUC Forward Data Lab	Urbana, IL
	<i>Researcher</i>	Sep 2023 - Present
	<ul style="list-style-type: none">Mentored by Prof. Kevin Chang and work on exploring new approaches that use memory mechanism to address the challenge of extending context window length for LLMsCombined RAG and memory cache to outperform both RAG and memory-based methods	
	PeopleWeave Project	Urbana, IL
	<i>Data Recommendation Team Member</i>	Apr 2023 – Dec 2023
	<ul style="list-style-type: none">Mentored by Prof. Matthew Caesar and work in group to discuss and implement a new recommendation algorithm with knowledge graph algorithms and Attention mechanism for users	
	China Merchants Bank	Nanjing, China
	<i>Software Development Intern</i>	Jun 2023 – Jul 2023
	<ul style="list-style-type: none">Completed several Java projects individually by using frameworks including SpringBoot, Kafka, and MyBatis, and created unit tests for the projectsCollaborated with mentor to improve the efficiency of the code and eventually publish the projects on production environment	
	CMU RoboTutor Team	Remote
	<i>Data Analytics Intern</i>	Aug 2020 – Mar 2021
	<ul style="list-style-type: none">Analyzed data collected by mobile app developed by the team during experiment with the mentorship of the project leader, Prof. Mostow, and collaboration with a senior studentPredicted future usage of the app by utilizing machine learning model and identified potential problems of the app and provided solutions to these problems to improve the project	
	UIUC International Collegiate Programming Contest Team	Urbana, IL
ACTIVITIES	<i>Team Member</i>	Jan 2022 - Present
	<ul style="list-style-type: none">Honors in the 48th Annual ICPC World Finals held in Astana, KazakhstanChampion of ICPC Mid-Central Programming Contest 2022 held in February 2023	