

Jamison Kerney

✉ jkerney@hawk.iit.edu ☎ 312-731-2822 🌐 kerneyj

Research Interest

I am broadly interested in Parallel Programming, Operating Systems, Compilers, Computer Architecture, and their usages towards High-Performance Computing. As a voracious tinkerer, I have a deep fascination for hacking on OS kernels. By actively engaging in modifying and extending kernels, I gain a profound understanding of the interactions between software and hardware, refining my programming skills and problem-solving approach.

Education

B.S., Computer Science Graduating May 2024
Illinois Institute of Technology, Chicago, IL 3.73 GPA

College of Computing

Relevant coursework: Operating Systems, Computer Architecture, Parallel and Distributed Computing

M.S., Computer Science Graduating May 2024
Illinois Institute of Technology, Chicago, IL 4.00 GPA

College of Computing

Relevant coursework: Advanced OS, Combinatorial Optimization, Data Intensive Computing

Experience

University of Chicago, Chicago, IL: Undergraduate Student Research May 2023 – Current

- Worked with Globus Labs to improve workflow and container systems

Illinois Institute of Technology, Chicago, IL: Undergraduate Student Researcher May 2022 – Current

- Worked with HExSA Lab on unikernels to improve boot time of workflow systems (Collab with Globus)
- Worked with DataSys Lab on Fine-grained parallelism in Python parallel workflow systems (Collab with Globus)

Northwestern University, Evanston, IL: Undergraduate Student Researcher Mar 2023 – May 2023

- Worked with Prescience lab on understanding mmap usage patterns of Database Systems

Illinois Institute of Technology, Chicago, IL: Undergraduate Teaching Assistant Jan 2022 – May 2023

- CS 351 Systems Programming: assisted students on labs, helped with test prep
- CS 116 Intro to Object Oriented Programming: assisted students on labs, helped with test prep, graded labs

Receptify, Chicago, IL: Software developer to CTO Jan 2022 – Sep 2022

- As CTO: Translated the vision of the company into a product
- As Software Developer: Used MERN to create a platform for victim response stakeholders to communicate

Publications

- 2023
1. Kerney, J., Hale, K., Hayot-Sasson, V. & Chard, K. *Supercharging Scientific Serverless: Slashing Cold Starts with Python UniKernels* in *SC '23 Student Research Competition: Undergraduate Posters (2023)*, 3rd Place.
 2. Kerney, J., Raicu, I. & Chard, K. *Transition from Coarse to Fine grain parallelism: Can it be done in Parsl?* in *2023 10th Greater Chicago Area Systems Research Workshop(GCARS) (2023)*.