

NEELA LOUISE KAUSIK

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EDUCATION

University of Washington

MS/PhD in Computer Science and Engineering

Advisor: Mark Oskin

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Engineering

Graduation Date: May 2024

AWARDS

Professor N. Narayana Rao Scholarship Award

August 2023

SKILLS

- Verilog, C, C++, CUDA, x86 assembly, Java
- Profiling
- Linux operating systems
- Proficiency in Git github.com/neelakausik

RELEVANT COURSEWORK

- Principles of Digital Systems Design (Sp2025)
- Computer Systems Architecture
- Computer Organization and Design
- Digital Systems Laboratory
- Computer Security
- Algorithms and Models of Computation
- Computer Systems Engineering
- Applied Parallel Programming
- Computer Systems and Programming
- Analog Signal Processing

RESEARCH & WORK EXPERIENCE

Teaching Assistant for CSE 351: The Hardware/Software Interface

Department of Computer Science and Engineering, Univ of Washington

September 2024 — December 2024

- Hold discussion sections and office hours, grade assignments and exams, and participate in staff meetings

Undergraduate Researcher

IMPACT Research Group, Univ of Illinois

Advisor: Wen-mei Hwu

May 2022 — May 2024

Illinois Scholars Undergraduate Research Program

August 2023 — May 2024

- Bachelor's thesis on secure user-space Direct Memory Access under mentorship of Zaid Qureshi and Vikram Sharma-Mailthody of NVIDIA
- Research survey on GPU and FPGA hardware vulnerabilities and possible attacks

Defense Science and Technology Scholar, Computing Intern

Lawrence Livermore National Laboratory

May 2023 — August 2023

- Researched implementations of GPU streams in multiphysics simulation code ALE3D
- Contributed to open source projects [CHAI](#) and [CARE](#)

Grader for Introduction to Computing

Department of Electrical and Computer Engineering, Univ of Illinois

January 2021 — December 2021

- Graded homeworks and lab projects with constructive feedback

LEADERSHIP EXPERIENCE

Alpha Phi International Fraternity

Chapter President

November 2021 — November 2022

Vice President of Health, Wellness, and Accountability

November 2020 — November 2021

Society of Women Engineers

Mentorship Chair

September 2020 — May 2021