

Amirmohammad Nazari

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SUMMARY

Enthusiastic third-year Ph.D. student in Computer Science at Yale University, blending a solid foundation in Computer Engineering and Mathematics with expertise in computer networking, operating systems, and NIC programming. Proficient in various programming languages including C/C++, Python, Rust, and Verilog.

EDUCATION

Yale University, New Haven, CT August 2022 - Present
Ph.D., Computer Science
Advisors: Robert Soule, Rajit Manohar
Selected Courses: Building an Internet Router, Big Data Systems, Operating Systems.

Sharif University, Tehran, Iran September 2017 - February 2022
B.S., *Major*: Electrical Engineering, *Minor*: Computer Science
Selected Courses: Software-Define Mobile Networking, Distributed Systems, Advanced Programming.

RESEARCH EXPERIENCE

Yale University, *Graduate Researcher*, New Haven, CT August 2022 - Present

- Increasing I/O performance by designing special hardware to handle I/O interrupts and scheduling for high priority processes
- Evaluating kernel bypass approaches for network acceleration that utilize DPDK or PMDK
- Implementing a fully functioning NIC on Xilinx U250 and VCU118 boards using Verilog and ACT VLSI design tool

Technical University Berlin, *Research Intern*, Berlin, Germany August 2021 – March 2022

- Developing NS-3 based testbed for evaluating reconfigurable data center networks (RDCNs)
- Evaluating well-known congestion control algorithms, e.g. Timely and DCTCP, for RDCNs

Sharif University, *Research Intern*, Tehran, Iran July 2020 – July 2021

- Multi-domain cloud orchestration using OpenStack inter-cloud networking using SDN

TECHNICAL SKILLS

- Programming Languages: C/C++, Linux, Python, Rust, Java, MATLAB, Verilog, P4, NS-3
- Areas of Expertise: Computer networks, Operating systems, NIC programming

AWARDS

Gold Medal, National High School Mathematics Olympiad, Tehran, Iran August 2016

TEACHING EXPERIENCE

Yale University, *Teaching Fellow*, New Haven, CT

- Building an Internet Router* Spring 2024
- Database Design and Implementation* Fall 2023

Sharif University, *Teaching Assistant*, Tehran, Iran

- Computer Networks* Fall 2021 & Spring 2021
- Software-Defined Mobile Networking* Spring 2021

SELECTED COURSE PROJECTS

- Big Data Systems** Fall 2023
Implementing message-passing and shared memory IPC abstractions in Rust and evaluating their performance for users and developers.
- Building an Internet Router** Fall 2022
Writing a fully functioning router in P4 supporting OSPF protocol and most ICMP messages.