

# Kian Kasad

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## EDUCATION

### Purdue University

*B.S. in Computer Science, Minor in Mathematics*

- GPA: 4.00
- Awards: Undergraduate TA Award, Outstanding Service to the CS Dept., Dean's List (×4), Semester Honors (×4)

West Lafayette, IN

Aug. 2023 – May 2027

## EXPERIENCE

### Incoming Linux Engineer Intern

May 2026 – Aug. 2026

Jane Street

New York, NY

- Will be joining Jane Street as a Linux Engineer intern for their Summer 2026 cohort.

### Undergraduate Researcher

Sep. 2025 – Present

SecArch lab, Purdue University

West Lafayette, IN

- Investigating new instruction set architecture extensions for integer overflow detection.
- Building compiler support for LLVM (C/C++) and Rust.

### Software Engineer Intern

May 2025 – Aug. 2025

Theom, Inc.

San Jose, CA

- Developed high-throughput API services handling 20k+ requests/second.
- Deployed backend services written in Go using Docker on AWS EKS, ECS, and Snowflake SPCS.
- Implemented workflows to handle customer data securely by following minimum trust principles.

### Head TA, CS 240: Programming in C

June 2024 – May 2025

Purdue University

West Lafayette, IN

- Led a team of 5 developers to write, QA, and test weekly programming assignments in C for 1000+ students.
- Managed secure deployment, collection, and grading of homework assignments with a Git-based system.
- Totaled 50k lines of code contributed.
- Developed internal tools in Python for high-parallelism randomized testing/fuzzing.
- Promoted to head development TA, a graduate-level position, as an undergraduate sophomore.

## PROJECTS

### Purdue Hackers Webring | Rust, Go, GitHub Actions CI

Dec. 2024 – Present

- Migrated a full-stack web application from Go to Rust for improved security, performance, and availability.
- Implemented integration with Discord API to provide real-time notifications to users.
- Wrote CI/CD workflows using GitHub Actions to automate testing and deployment of changes.
- Achieved 87% test coverage to guarantee correctness of program behavior.
- High throughput, able to serve 15k requests/second on a tiny 1-core t2.micro AWS EC2 instance.

### Userspace Network Stack | Linux kernel, Rust, IPv4, UDP, TCP, TUN/TAP

May 2025 – Present

- Working on an in-userspace implementation of IPv4, UDP, and TCP for Linux.
- Using Linux TUN/TAP devices to bypass the kernel networking stack.

### Open-Source Contributions | GitHub, C, Rust, JavaScript, Go, & more

2020 – Present

- Opened 73 pull requests (53 merged, 7 open) across 39 repositories, excluding my own projects.
- Contributed to projects with up to 34k users, including [Manim](#), [CasaOS](#), and [Anubis](#).

### Server Administration | Linux, Ansible, Docker, Tailscale, Traefik, NGINX

2019 – Present

- Deployed and managed two Debian Linux servers, maintaining 99.99% uptime for 5+ years.
- Running 40+ services using Docker Compose to orchestrate containers.
- Extensive monitoring and alerting using Grafana/Prometheus/Loki to collect/analyze service metrics and logs.
- Secure networking using VPNs with custom routing and DNS.

## TECHNICAL SKILLS

**Languages:** Rust, C, C++, Go, Python, JavaScript, TypeScript, Java, SQL (Snowflake, SQLite3), Bash

**Technologies/Concepts:** Linux, UNIX, Networking, HTTP, REST APIs, ProtoBuf, Distributed systems, Async

**Tools:** Git, Docker, Kubernetes, GitHub Actions, GitLab CI/CD, VS Code, PyCharm, IntelliJ, GoLand, (Neo)Vim, SSH