

# Peter Stenger

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## EDUCATION

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### University of Illinois Urbana-Champaign

Master of Computer Science

August 2024 – May 2025

Bachelor of Science in Computer Science

August 2021 – May 2024

## EXPERIENCE

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### Software Engineer

Mechanize

June 2026 – Present

San Francisco, CA

### Founding Engineer

PrairieLearn

June 2025 – June 2026

Remote

- Designed, planned, and built the full frontend and backend for the [enrollment management](#), course publishing system, [assessment access control](#) system. Infrastructure work on AWS with Terraform.
- [Modernized codebase](#) to TypeScript, typed SQL queries (Zod), React, tRPC, react-aria, and TanStack Query/Table. Built a [parser, linter and LSP](#) for the mustache templating engine.

### Security Research Intern

Battelle

May 2024 – August 2024

Columbus, OH

- Reverse-engineered MIPS & ARM firmware on embedded Linux devices, gaining an in-depth understanding of consumer device RF protocols. Discovered a means of running a version-agnostic binary using C and assembly.
- Added a caching layer to our distributed job runner (Kubernetes and MinIO) making job runs 95% faster.

### Software Engineering Intern

NETSCOUT

May 2023 – August 2023

Ann Arbor, MI

- Modernized the account management page from pure PHP to React+MaterialUI, PHP, Python, Typescript.
- Fixed high-severity bugs in the PHP and React frontend, authorization issues in Python middleware, and filesystem issues in the custom operating system (bash + TCL).

### Security Research Intern

Battelle

May 2022 – August 2022

Columbus, OH

- Reverse-engineered a ARM-based modem and modified functionality in order to exfiltrate valuable cellular data.
- Reverse-engineered a complex .NET modem debugging tool, and emulated the tool with 3000+ lines of Python.

## ACTIVITIES

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### Teaching Assistant (Distributed Systems, Intro to C++)

August 2024 – May 2025

### SIGPwny

September 2021 – August 2024

- President of SIGPwny, a cybersecurity club with 150+ members and top-50 worldwide ranking on [CTFtime](#).
- Project manager for [UIUCTF 2023](#), which had 800+ teams (6k+ prize pool). Created a custom Windows 95 theme, wrote reverse-engineering and sandboxing challenges, stood up infrastructure on Google Cloud.
- Rewrote [club website](#) with Astro, React, Typescript, Decap CMS, and GitHub Actions.

### Security Research

September 2021 – May 2024

- Same-process sandboxing (2021), security education (2023), kernel configuration recovery (2024) under Levchenko.

### Hack4Impact Developer

September 2022 – July 2023

- Software engineering work with nonprofits in a SWE team structure of 8 people (designers, developers, team lead).
- [Meraki \(Spring 2023\)](#) - Architected Parivartan, a tool to view insights into the state of Anganwadis (preschools) across India. Built with PostgreSQL, Typescript, tRPC, ChakraUI, Prisma, Supabase, AppScript.
- Designed the database schema and score caching system for 100,000+ form responses. Created [a system](#) that maps Google Forms to database tables, and performs schema migrations as forms change.

## AWARDS & SKILLS

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Eagle Scout, Dean's List · Python, Javascript (TypeScript/React), Rust, C, Golang, SQL · Git, Docker, AWS, CI