

SOHAM SHRIPAD GUMASTE

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EDUCATION

BS in Computer Science | *University of Illinois Chicago*

- Expected Graduation December 2024
- Relevant Coursework: Data Structures, Language Design, Systems Programming

WORK EXPERIENCE

Teaching Assistant | *Systems Programming*

2023-Present

- Nurtured students to get a conceptual understanding of systems concepts like memory, kernels and systemcalls.
- Guaranteed student success in weekly lab sessions.
- Encouraged students to discover their own solutions for homework with weekly office hours averaging 15 students an hour.

PROJECTS

Creator | *Cerberus [Javascript, NodeJS, SQLite]*

2023

- A full stack SSR web app for user self-onboarding and management to Active Directory (LDAP).
- Employed SvelteKit to interface with Domain Controllers and the Discord API.
- Engineered CI/CD with Github Actions for containerized deployment.

Package Maintainer | *NixOS*

2022-Present

- Spearheading the integration of packages crucial for first class Active Directory support.

Contributor | *Synapse (Matrix) [Python, Bash]*

2019

- Refined functionality in utility scripts.

Contributor | *KeepassXC [C++, CMake, Qt5]*

2018

- Revitalized the User Interface written in Qt5.
- Learned to discover a large existing codebase.

EXTRACURRICULAR

Vice President | *Linux User Group*

2022-Present

- Spearheaded events and workshops promoting Linux and Free and Open Source Software.
- Designed a workshop on Git to teach freshmen about the Git/Github Workflow
- Orchestrated a hands-on lab for learning debugging with GDB.
- Working with CS Dept to deploy development servers for students using CGroups and Namespaces in the Kernel.

TECHNICAL SKILLS

System Administration Skills

- Cloud Application deployment with Docker and Kubernetes.
- Networking with TCP/UDP.
- Shell scripting and automation with bash, sed, awk.
- Server automation with Ansible.
- Experience with ActiveDirectory/LDAP
- Emacs enthusiast!

Programming Skills

- Systems programming with C and Rust.
- Understanding of functional programming with F# and Haskell.
- Scripting experience in Perl, Python and Javascript/Typescript (NodeJS).
- Object Oriented Programming with C++ and Java.
- Database creation and querying with SQL.