

# Nihal Jere

<https://nihaljere.xyz>  
[nihal@nihaljere.xyz](mailto:nihal@nihaljere.xyz)

## EDUCATION

University of Texas at Austin - B.S. in Mathematics May 2023  
with Elements of Computing Certificate  
3.68 Cumulative GPA

LASA High School May 2019  
National Merit Finalist

## SELECTED PROJECTS

- [wayclip](#) - a Wayland clipboard utility
- Used in the real world; default clipboard utility in KISS Linux
  - In the package repositories for several major Linux distributions
  - 20 stars on Github
- [cactus](#) - a small Linux system for the Pinephone
- Capable of making and receiving phone calls and SMS
  - Custom touch-oriented interface
  - All phone specific userspace code developed from scratch

More projects and code at <https://nihaljere.xyz/projects.html>.  
Open source work includes contributions to [git](#), [msmtp](#), [sway](#), Phaser CE, and many more.

## EXPERIENCE

**Volunteer Package Maintainer**    KISS Linux Community September 2020-Present

Used knowledge of build systems to package and maintain software.  
Helped users over real-time chat with setting up and maintaining their system.  
Patched software to improve compatibility.

**Researcher** Freshman Research Initiative August 2019 - May 2020

Designed and implemented a neural network to find optimal drilling locations for new oil wells.  
Researched, designed, and implemented a GAN for few-shot object detection using PyTorch. Col-  
laborated in a team and wrote paper on research.

**IT Intern** UTIMCO / Prestige Staffing Summer/Winter 2019

Managed the imaging and setup of a large delivery of laptops and hubs.  
Collected and entered hardware information into a database to enable lifecycle tracking.  
Performed various maintenance tasks, and coordinated with external support technicians.  
Set up workstations for new employees.

## SKILLS

Proficient with C/C++, Python, git, HTML/CSS, Linux, Shell scripting, Java  
Experience with OpenGL/SDL, Javascript, Golang, Kotlin, Lua, OpenBSD