

Caleb KIRBY

ADDRESS:



PHONE:



EMAIL:



GITHUB: <https://github.com/kirbk/>

PORTFOLIO: <https://kirbk.github.io/>

SUMMARY

I am a technically skilled and driven computer scientist and software engineer looking for a position to utilize my linux and programming experience to design and optimize solutions.

WORK EXPERIENCE

Current
JAN 2020

Teaching Assistant @ IUPUI
Peer Leader

Assisted in the learning of other students by hosting recitation and overseeing the success of their academics. Classes included: COMPUTING I, COMPUTER II, AND INTRODUCTION TO COMPUTER SCIENCE

JAN-JUL 2021

Research Assistant @ IUPUI

Advanced research in the area of real time application monitoring under the supervision of Prof. James HILL and was described as "*very driven and knowledgeable*".

Current
JULY 2019

Associate @ Pet Supplies Plus

Fulfill everyday duties including conversing with customers and fulfilling their needs, working in a team to achieve a common goal, and ensuring everything gets done.

EDUCATION

MAY 2022

Undergraduate BACHELOR OF SCIENCE, IUPUI, Indianapolis
Major: Computer & Information Science
GPA: 3.29/4.0

AUG 2018-MAY 2019

Purdue University, West Lafayette

RELEVANT COURSEWORK

- Systems Programming
- Introduction to Operating Systems
- Data Structures and Algorithms
- Programming in C
- Discrete Computational Structures
- Principles of Software Design
- Software Project Management
- Database Systems
- Theory of Computation

RELEVANT PROJECTS

- Real-time software instrumentation research project .
- Designed, implemented, and maintain *Campbell and Associates* website.
- Functional HTTP server with PHP support.
- Hardware NES Cartridge dumper.
- Entity Component System, where entities are defined in LUA, for game engines.

COMPUTER SKILLS

Advanced Knowledge:

GNU/Linux, C/C++, PYTHON, OOP, SQL, HTTP, Debugging, GIT, Data Structures, Mathematics, Data Analysis, Design Patterns

Working Knowledge:

JAVA, JAVASCRIPT, PHP, Apache, Arduino, Middleware, Systems Programming, Firmware Hacking, ~~TeX~~

Some Knowledge:

Kernel Module Development, USB Protocol, Pentesting, Docker, RUST

INTERESTS AND ACTIVITIES

My largest interest, far beyond all others, is advancing my knowledge in Computer Science and practicing the skills I've already obtained.

Other interests include: Technology, Open-Source, Teaching, Programming, Generative Art, Game Dev.