JACOB MALLOY

Knoxville, TN

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 ◯ JacobMalloy
 ♦ Jmalloy1

EDUCATION

The University of Tennessee

B.S. in Computer Science - 3.99

Knoxville, Tennessee

Even I I'm III'm Colored

Franklin High School
Summa Cum Laude

08 2016 – 05 2020
Franklin, Tennessee

COURSEWORK / SKILLS

• C/C++ • eBPF • Bash • GDB • Linux

Python
 JavaScript
 VS Code
 Valgrind
 Git

PROFESSIONAL EXPERIENCE

CORSys Research Lab

06 2021 – Current Knoxville, Tennessee

Undergraduate Research Assistant

• Work on optimizing the memory usage by analyzing different Garbage Collectors usage patterns.

- Research non uniform memory architectures with the ZGC garbage collector in OpenJDK's HotSpot JVM.
- Port internal kernel change modifying the cgroup system from kernel version 5.7.2 to 5.14.

Code Ninjas Franklin

 $10\ 2018 - 07\ 2020$

Lead Sensei

Franklin, Tennessee

- Provided a safe and fun learning environment for kids ages 7-14 to develop programming and STEM skills.
- Led multiple summer camps fostering a positive environment to learn things such as scratch, JavaScript, and educational STEM skills.

TEACHING EXPERIENCE

First Lego League Robotics Team

 $08\ 2019 - 12\ 2019$

<u>Co-Coach</u>

Franklin, Tennessee

- Founded a FIRST LEGO League robotics team that won the robot portion of the Nashville competition.
- Led a team of students ages 9-13 to work as a team building a robot and creating an innovation project.
- Fostered an environment that was conducive to team work and learning engineering skills.

Extracurricular Involvement

Franklin High School Robotics Club

 $\mathbf{05} \ \mathbf{2018} - \mathbf{05} \ \mathbf{2020}$

Lead Programmer

Franklin, Tennessee

- Managed multiple other club members using Git as a version control.
- Taught and led younger members of the robotics team to program the competition robot.
- Contributed to developing the Java software for two Robot competitions.

VOLUNTEER EXPERIENCE

Brenthaven Cumberland Presbyterian Church

 $07\ 2015 - 07\ 2020$

Youth Member

Brentwood, Tennessee

- Participated in several mission trips including wildfire cleanup in the Smokey Mountains.
- Engaged in over 100 hours of community service through church organized missions.
- Member of the team providing sound engineering and live streaming services.

Loudon Cumberland Presbyterian Church

08 2021 - Current

 $Vol\underline{unteer}$

Loudon, Tennessee

• Participate on the audio visual team running sound, screens and the camera system.