# KARUN DAWADI

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## EDUCATION

**University of Texas at Arlington**                                     Arlington, TX
*Bachelor of Science in Computer Science*                          *Aug. 2018 – Ongoing*

*GPA : 3.9 / 4.0*                                          *Expected graduation date : May 2022*

## TECHNICAL SKILLS

**Languages**: Python, C, Swift, C++, SQL, Java, JavaScript, Regex, HTML/CSS
**Operating Systems**: MacOS, Windows, Fedora, Ubuntu, iOS, Android
**Frameworks**: React, Material-UI, Bootstrap, Flutter
**Developer Tools**: Git, XCode, GDB, Valgrind, GNU make, Chrome DevTools, VS Code, Android Studio, Visual Studio

## EXPERIENCE

**IT Support Services Assistant**                               December 2018 – Present
*University of Texas at Arlington*                                        *Arlington, TX*
- Provided support to client's technical issues on an emergency basis
- Performed testing for various software packages before release
- Dispatched 145 computers to work from home
- Maintained and updated tickets on Service Now
- Updated and maintained detailed documentation

## PROJECTS

**Fat32 File System** | *C, C++*                                    Oct 2020 – Dec 2020
- Developed a user-ring level application capable of interpreting a FAT32 file system
- Designed a command line interface with a list of pre-defined commands to traverse the file system

**Heap Management** | *C, C++*                                      Oct 2020 – Nov 2020
- Designed custom-built versions of malloc and free
- Customized coalescing and splitting of free blocks of memory
- Implemented three heap management strategies: Next Fit, Worst Fit, and Best Fit

**Linux System Calls** | *C , C++, Python*                          Sep 2020 – Oct 2020
- Designed new system calls to the Linux operating system
- Implemented data structures to move data from user space to kernel space

**Mav-Shell** | *C , Python*                                        Aug 2020 – Oct 2020
- Built a new shell program which accepts custom built commands
- Implemented all the commands supported in the Bourne shell

**Resume Builder** | *JavaScript, Material-UI, HTML, CSS*           July 2020 – Aug 2020
- Designed a front end application using React JS that takes in user input and generates a resume