

SAFAL LAMSAL

SOFTWARE ENGINEERING MAJOR - RESEARCH ASSISTANT

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ABOUT ME

Technical Skills	C/C++, Unix/Linux, Python, SQL/NoSQL, Java, Excel
Web & Design	HTML/CSS/JavaScript, React/Redux, Flask, NodeJS/Express, Bootstrap/jQuery
Interests	Machine Learning, Cryptography, Distributed System, Security

WORK EXPERIENCE

Research Assistant

Department of Computer Science and Engineering, UTA

Arlington, TX (Jan 2018–Present)

- Designed and Implemented Cache Replacement Algorithm in C/C++
- Currently developing an Algorithm to improve upon the current replacement algorithms

PROJECTS & COMPETITIONS

HackUTA 2018

(Oct 2018)

- Won Facebook's Best Community Building Project
- Built a [web app](#) to keep track of your hourly activities and provide data visualization
- Designed the user interface and set up back-end using PostgreSQL database and Flask web server

HackRice 8 at Rice University

(Sep 2018)

- Won the Chevron company sponsored challenge
- Built a [web app](#) in group of 3 to optimize the work order process in Chevron complex process facilities
- Designed the database using an ORM and created REST API endpoints using Flask web server in Python

Next-Read

(Aug 2018)

- A book review website built with Python and PostgreSQL database on the server
- Gained experience in server side rendered web pages, authentication, and worked with JSON APIs

UberCasino

(Jan 2018–May 2018)

- Designed and developed a distributed blackjack game using C++ and FLTK for user interface
- Used OpenSplice, a Pub/Sub Middleware for peer-to-peer communication, while maintaining interoperability between different systems
- Used practical approach to software development through analysis, design & implementation, testing, and maintenance

Several Operating Systems Projects

(Jan 2018–May 2018)

- [msh-shell](#) - Simple bash-like shell implementaion in C
- [fat32-utility](#) - Utiily for the FAT32 file system image that can read and display useful information
- [file-system](#) - In-memory Indexed Allocated file system that can perform read, write and display useful information

Mav's Ice Cream Emporium

(Aug 2017–Dec 2017)

- Designed a GUI management system using C++ and gtkmm
- Lead a group of 4 and managed the project using Scrum framework
- Made use of Version Control, Debugging Tools, and UML Diagrams

EDUCATION

The University of Texas at Arlington

Arlington, TX (May 2020)

- Bachelor of Science in Software Engineering
- In-major GPA: 3.54

freeCodeCamp

(2018–Present)

- [Front End Web Developement Certification](#)
- [JavaScript Algorithms and Data Structures Certification](#)