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

HackRice 8 at Rice University

 $(\mathrm{Sep}\ 2018)$

- 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

Flack (Aug 2018)

- A slack-like chat WebApp built with Python and JavaScript
- Used Websockets for real-time communication on client & server side

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 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 Utility 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 (2016-Present)

- B.S. in Software Engineering
- Expected Graduation: May 2020

freeCodeCamp

(2018-Present)

- Front End Web Developement Certification
- JavaScript Algorithms and Data Structures Certification