

# Arsalan Bin Najeeb

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## EDUCATION

### KNOX COLLEGE

#### B.S. Computer Science &

Business & Management

Cum Laude

GPA 3.6 | May 2020

## TECHNICAL SKILLS

### PROGRAMMING

Proficient (4+ years)

Java • Python

Familiar

C • Django • PostgreSQL • REST API

React • React Native • Firebase

JavaScript • HTML5 • CSS • R

### ENVIRONMENTS

WSL2 • Ubuntu • Eclipse • PyCharm

VSCode • Git • EMACS • L<sup>A</sup>T<sub>E</sub>X

## LINKS

LinkedIn: //arsalanwyne

Website: //anw10.github.io

## AWARDS

1<sup>st</sup> place Student Research | Consortium of Computing Science Colleges MW 2018

Philip Haring & John Houston Award | Promoting International Understanding

Deans Honor List

Mortar Board Member

Sigma Xi Nominee

OISS Post-Bacc Fellow 2020

## PUBLICATIONS

- [1] T. Anwar, A. Jimenez, A. Bin Najeeb, B. Upadhyaya, and M. M. McGill. Exploring the enacted computing curriculum in k-12 schools in south asia: Bangladesh, nepal, pakistan, and sri lanka. Association for Computing Machinery, 2020.

## EXPERIENCE

### Software Engineer | Stream Engine

Nov 2020 - Present

- Developed a shared database & shared schema multi-tenant application with a team of 3 back-end developers
- Designed & implemented schema for PostgreSQL back-end & created REST API endpoints using Django & Django Rest Framework
- Decreased request payload time by optimizing & refactoring endpoints
- Created scripts to decrease wait time for interacting with the Twitter API by simplifying queries and running them in batches
- Used Jira for issue tracking & an agile methodology for the project
- Created Python unittest cases for scripts & performed code reviews

### Heterogeneous Research Assistant | ToUCH, NSF Grant

Jan 2019 - Jun 2020

- Implemented a facial recognition algorithm in C for the Raspberry Pi then parallelized code to run 50% faster on the quad core chipset by OpenMP
- Investigated task scheduling on heterogeneous processors
- Led 4-member research team & coordinated with Texas State University and Concordia University, presented work at Benedictine University

### HPC Research Assistant | Knox College, NSF Grant

Jun 2018 - Aug 2018

- Decreased latency for Dragonfly a High Performance Computing system by balancing cluster connections by developing a task mapping algorithm
- Presented at 2 computer science consortium's at Washington University in St. Louis and Ball State University

## PROJECTS

### Team Lead | Scrub

Mar 2020 - Jun 2020

- Led team developing cross-platform app to teach proper hand washing by WHO & CDC to decrease chances of infection
- Debugged & tested code by 3 team members
- React Native with Expo development stack used. Followed agile development framework during development

### Full Stack Developer | Zing!

Mar 2019 - Mar 2020

- Developed a cross-platform event finder app using React Native
- Decreased query response times by implementing a Firebase(NoSQL) back end to save and fetch, events using JSON objects, OAuth & Images
- Followed agile development structure during development

## LEADERSHIP ACTIVITIES

### International Ambassador | Knox College, OISS

Sept 2017 - Jun 2020

- Collaborated with a team of 6 international ambassadors & Office of international student services to overcome academic and social difficulties pertaining to a community of 250+ International students

### President | UNICEF @ Knox

Mar 2019 - Mar 2020

- Selected for executive board and have been with the organization since its inception at Knox College in 2017, raised active member count by 75%