Arsalan Bin Najeeb

773.999.4346 | arsalannajeeb0@gmail.com | GitHub//anw10

EDUCATION

GEORGE WASHINGTON UNIVERSITY
M.S. Computer Science
May 2025
KNOX COLLEGE
B.S. Computer Science &
Business & Management
Cum Laude
GPA 3.6 | Jun 2020

TECHNICAL SKILLS

PROGRAMMING

Proficient (5+ years)
Java • Python
Familiar
Groovy • SQL • NoSQL • Grails • Vue
JavaScript • Grails GORM • C • Perl
React Native • React • Django • HTML5
CSS • Next.Js

TECH STACK

Apache • AWS • GCP • Docker • WSL2
Ubuntu • IntelliJ • PyCharm • VScode
Kubernetes • Git • EMACS • LaTeX

LINKS

LinkedIn: //**arsalanwyne**
Website: //**arsalan.app**

AWARDS

1st 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 | TWST Events (Previously CSS Jul 2022)

May 2021 - Aug 2023

- Repaired 2 inherited **Java** systems by initial bug fixes & system updates
- Visualized & overhauled UI for 2 **Vue** reactive front end sites while following OWASP rules for security and W3C standards for accessibility
- Created **REST** API endpoints for a **Micronauts(JVM) & Grails GORM** back-end
- Optimized inherited code by adjusting & reusing existing data flow with internal service helpers and engineering new service helpers
- Remodeled **MySQL** database schema to reflect new tables and feature updates by migrating changes through flyway for multiple **Kubernetes** environments
- Leveraged webhooks to develop internal tools with **Next.Js**, **Firebase** & **GCP** to monitor real time detection of RFID readers and tags
- Developed API endpoints for a LAMP stack based Perl web app
- Planned and documented procedures for migration of code from a LAMP stack to a microservices stack
- Oversaw Kubernetes & AWS environments by maintaining regular check-ups and adjusting scale-up and scale-down settings

Full Stack Engineer | Stream Engine

Nov 2020 - May 2021

- 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 unit test 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

LEADERSHIP ACTIVITIES

SEAS Ambassador | George Washington University

Jun 2024 - Present

- Collaborating with a team of 6 ambassadors to overcome academic and social difficulties for students in the School of Engineering and Applied Sciences