Muhammad Faisal Shahid

faisalshahid@knights.ucf.edu ◇ (321) 240-4158 ◇ mfaisalshahid.com ◇ github.com/mfaisalshahid

EDUCATION

University of Central Florida — Orlando, FL
Master of Science — Data Analytics (Big Data) — *May 2021*
CGPA: 4.0

Lahore University of Management Sciences — Lahore, Pakistan
Bachelor of Science (Hons.) — Computer Science — *May 2019*

Relevant Coursework: Machine Learning, Parallel and Cloud Computation, Data Mining, Statistical Analysis, Artificial intelligence, Data Structures, Algorithms, Advance Programming, Software Engineering, Databases

WORK EXPERIENCE

Amazon Web Services — Seattle, WA
Software Development Engineer Intern — *June 2020 - Aug 2020*

- Introduced a new pipeline activity, allowing customers to change the format of the timestamps in their incoming JSON messages through channels from AWS IoT Core, and store them into data stores.
- Developed the back-end and added this functionality to the AWS IoT Analytics Console and AWS CLI.

Goodlogics — Lahore, Pakistan
Software Engineer Intern — *May 2018 - Sep 2018*

- Developed web pages in ReactJS for various client applications.
- Tested multiple websites using Selenium and provided programming support for fault detection.

SKILLS

Languages
C++, Java, Python, Go, JavaScript, SQL, R, HTML, PHP, CSS

Tools and Frameworks
Node JS, React JS, PyTorch, Hadoop, Spark, Kafka, Docker, MongoDB, Spring, Bootstrap, Flask, Unity, Android Studio

ACADEMIC PROJECTS

Disaster Tweets - CAP 5610: Machine Learning — *Apr 2020 - May 2020*
Tools: *Python, PyTorch, TensorFlow*

Using Natural Language Processing, built a classification model, that distinguishes tweets describing real disasters, from "fake" tweets. Built neural network models and compared their performances. Developed a functional data pipeline using TensorFlow.

Airbnb Price Trend - STA 5206: Statistical Analysis — *Oct 2019 - Dec 2019*
Tools: *Python, SAS, scikit-learn, Tableau*

- Using isolation forest for anomaly detection and time series forecasting, looked at predicting the future costs of Airbnb rentals. Used linear regression to compare what triggers the increase in prices. Visualized the results using Tableau.

Linux Kernel Specialization - BSc (Hons.) Thesis — *Jan 2019 - May 2019*
Tools: *LLVM*

Using LLVM, wrote module passes that analyzed application system calls and optimised the Linux kernel via dead code elimination, argument and module specialization. Evaluated the application with Thttpd. Resulting kernels were smaller and more secure. This project was done in collaboration with Stanford Research Institute.

BrainCare - CS 466: Human Computer Interaction — *Oct 2018 - Dec 2018*
Tools: *C#, Unity, Xcode*

Developed an iOS application for early detection and control of Dementia symptoms in patients. Through interactive games and activities that promote cognitive functions, the application addresses problems like short term memory loss, and difficulties in navigation, communication and concentration.

Learning Management System - CS 360: Software Engineering — *Feb 2018 - Apr 2018*
Tools: *HTML, NodeJs, Heroku*

Developed a web application for teachers/students to manage their courses. Teachers can upload assignments and grades, and post announcements. Registered students can download assignments, upload their work, check grades and view announcements.