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### **SKILLS**

Java Python

C Clojure

jure VB.NET

Bash

TypeScript

JavaScript
t jQuery

Турсоспри

ReactJS

Node.js
React Native

Vue is

GCP

REST ASP

SQL

HTML CSS

Linux

Git Agi

# **LANGUAGES**

#### English

Native or Bilingual Proficiency

Arabic

Native or Bilingual Proficiency

French

Limited Working Proficiency

## <u>INTERESTS</u>

Tennis

Basketball

Photography

Hiking

Linux customization

Mental math tricks

# Omar Hilal Shaban

Creative problem-solver with experience in bringing ideas to life using a multitude of development tools and technologies

Looking for a graduate-level internship that draws on software engineering for building machine learning tools

#### **EDUCATION**

## **Master of Science in Computer Science**

University of North Carolina at Chapel Hill

Expected May 2022

#### Bachelor of Science in Computer Science, Bachelor of Science in Statistics and Analytics

University of North Carolina at Chapel Hill

GPA 3.98

Expected May 2021

Developed a Linux shell in C, implemented the core functionality of Git in Clojure, wrote a miniJava compiler in Java.

#### **WORK EXPERIENCE**

#### **Software Development Engineer - Intern**

Amazon Seattle, WA

05/2020 - 08/2020

- Implemented an issue reporting feature in Point-of-Sale terminals for use by associates in physical stores.
- Communicated with various teams in order to document the feature requirements, specifications, and tech design.
- Challenge: providing associates a quick and easy way to report issues while still producing informative tickets for product managers and developers.
- Operated on the full stack with Java on the back-end, Vue.js on the front-end. Selenium and Jest used to write full test suite.
- Presented a fully documented, implemented, and tested feature that meets the requirements specified by product manager.

#### **Software Testing Intern**

SAS Cary, NC

05/2019 - 08/2019

- Identified and implemented improvements to the software testing framework used to test risk management software.
- Enforced input validation rules and password encryption to refine security and integrity of testing framework.
- Enhanced the runtime performance of various testing functions by factors of 2 to 6 depending on the function.

#### **Full-Stack Development Intern**

Al Tracking Solutions LLC Carrboro, NC

11/2018 - 11/2019

- Developed and maintained a Google Cloud web application which hosts the company's particle tracking services.
- Implemented back-end using Python and the Flask framework and created an interactive UI using JavaScript and ReactJS.
- Designed user interfaces for previewing processed videos and an admin portal to manage users and auto-generated tickets.

#### **Software Developer**

Skynet Robotic Telescope Network Chapel Hill, NC

01/2018 - 12/2018

- Integrated an algorithm that processes and cleans radio data into the Skynet Robotic Telescope Network.
- Created a data model for radio files and processing jobs using Python and SQLAlchemy.
- Pioneered the development of a Python API that allows users to schedule and trigger observation events that focus all observational resources on a major astronomical occurrence when it is announced by LIGO, NASA, etc...

#### PROJECT EXPERIENCE

BloodBankPro

01/2017 - Present

- Wrote an algorithm that automates the selection of blood reagent samples from a database so that they can be tested against patients' serum samples.
- Speeds up the identification of antibodies in a patient thus lowering the turnaround time for starting a blood transfusion.
- Created the desktop application using Java and the web application using Classic ASP.
- Developed back-end automation functionality using Python and Selenium.
- Used by the Transfusion Medicine Services at UNC Hospitals for over a year where it saved 20-40 hours of work per week compared to manual sample selection.

#### **PUBLICATIONS**

Co-author: Skynet Algorithm for Single-Dish Radio Mapping I: Contaminant-Cleaning, Mapping, and Photometering Small-Scale Structures. *The Astrophysical Journal Supplement Series*, vol. 240, no. 1, 2019, p. 12.

Co-author: **Developing a Student Attendance App Using QR Codes: Educational and Practical Considerations**. *International Journal of Technology Enhanced Learning*, vol. 1, no. 1, 2020, p. 1. *Inderscience Publishers*, doi:10.1504/ijtel.2020.10032123.