Nada Zaki

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EDUCATION

Scholar
Holberton - ALX • Silicon Valley, USA • Sep 2023 - Present

Bachelor of Computer Engineering
Minor in Computer Engineering • Helwan University • Cairo, Egypt • Sep 2019 - Jan 2024 • GPA 3.06

SKILLS

Python, Bash Scripting, Linux System Administration,, C++, C (Data Structures), SQL and noSQL Databases, AWS, Java, Puppet, Nginx, Ruby, Regex, JavaScript, ORM (Object Relational Mapper), SQLAlchemy, Flask Framework,, Node.js, HAProxy (Load Balancing), Prometheus, Flutter , FireBase, Github, HTML , CSS , Reactjs, CircleCI, CI/CD.

Critical Thinking - Leadership - Problem Solving - Self management - Oral Communication - Written Communication - TeamWork - Adaptability - Swiftly adapting to new Technologies.

PROJECTS

Linux Simple Shell (C)
Holberton - ALX • [GitHub](#)• November 2023 - November 2023
- Developed a Feature-Rich Shell Emulating **Bash** Behavior.
- Leveraged **C** language constructs and system calls to create a robust and efficient shell environment.
- Implemented **Core Shell Functionalities**, and Implemented the **execution of shell basic commands.**

Graduation Project (AWS CloudFormation - CircleCI - Prometheus - Ansible - Flutter - Firebase - Yocto)
[Pipeline](#) [Android App](#) • August 2022 - July 2023
- Lead Role in Project Conceptualization and Functionality Design (Team of 2 Students only). and **Visualized** and **conceptualized** the project's overall function and scope as well as identifying and devised strategies to implement necessary functionalities**, adapting to changing project specifications** with flexibility and creativity and, Demonstrated Traits of **Patience, Consistency, and Stamina** as well as the skill to communicate effectively to ensure alignment on project vision, tasks, and timelines.
- Implemented CI/CD **pipelines** using **CircleCI** for efficient application deployment and continuous integration ,established environment monitoring using **Prometheus** for enhanced application performance and reliability.
- Designed and developed an Android application using **Flutter** framework and Integrated **Firebase** backend to enable real-time data updates and retrieval, enhancing user experience and data management capabilities.
- Successfully navigated the complexities of building an embedded **Linux image** using the **Yocto** tool, despite its steep learning curve and demonstrated resilience and adaptability by achieving a basic embedded Linux image capable of executing simple tasks, such as printing "Hello, world."

Creating a Fully automated Application CI/CD Pipeline and Deploying a High Availability WebApp using CloudFormation (AWS - CircleCI)
EgyptFWD-Udacity •[GitHub](#) • December 2022 - March 2023
- Implemented Robust CI/CD Pipelines for Continuous Delivery through **CircleCI**.
- Utilized **Ansible** for Streamlined Configuration Management.
- Ensured Comprehensive Observability with **Prometheus** to track key metrics and proactively identify and resolve potential issue
- Leveraged **AWS CloudFormation** for Seamless Infrastructure Deployment.

CERTIFICATIONS

DevOps - Leaps Program
ITI • 2023

Udacity AWS Cloud DevOps Nanodegree
EgyptFWD - Udacity • 2023

Volunteering

Iot Workshop Moderator
STP   October 2021 - August 2022
- Delivered 6 Comprehensive Sessions on Fundamental IoT Principles to a Cohort of Over 10 Engaged Students.
- Oversaw the Completion of a Final Project Demonstrating Mastery of the delivered IoT Principles and Techniques.
- Mentored, Empowered, and Supervised a group of 3 ambitious Students.

Project Manager
Enactus Helwan   September 2021 - December 2021
- Ensured Adherence to Research Criteria and Project Requirements.
- Facilitated Training Sessions on Effective Research Practices.
- Led and Managed a Cross-Functional Team.