

Ali Ali

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Summary

Full Stack Web Developer with 3 years experience specializing in frontend/backend development, infrastructure automation and deployment, and computer security. Passionate and energetic about learning new technologies, languages, and platforms.

Professional/Applied Experience

Full Stack Web Developer

Kuwait City, Kuwait

SELF-EMPLOYED | REFERENCE #2

Nov. 2018 - Aug. 2021

- Planned, designed, developed, integrated and tested Web Applications.
- Conducted tests and performed security and quality controls.
- Created and optimized content for Website such as Search Engine optimization (SEO) optimizations, media content optimization for faster load time, etc.
- Sourced, selected and organized information for inclusion and designed the appearance and layout of the Website.
- Developed Website architecture and determined hardware and software requirements.
- Deployed applications using test coverage, source control, and CI/CD.
- Consulted with clients to develop, document, and prepare mock-ups for the Website.
- Unit tested code, usability and reliability of applications.
- Created a **Flutter** cross-platform mobile application serving as a proof of concept with a **Firebase** backend on Android and iOS.
- Created and Deployed a **Vue.js** Frontend web application supporting dual language on Google Cloud Computing.
- Deployed and maintained the cluster with **ESXi**, automated the deployment of images using **Packer** for fast and updated template deployments.
- Created **WPF** Application using MVM Architecture for packet capturing and redirection on local machine using kernel drivers.

Environment: Flutter, VueJs, WPF, Firebase, .Net Core, Google Cloud Computing, Terraform, Docker, ESXi, NodeJS, ExpressJS, Git

Backend Developer & Frontend Developer | Senior Project

SENIOR PROJECT

January 2018 - May 2018

- Modeled and Developed a **Django** web application that is subscription based using a third party payment provider.
- Designed the application with web content accessibility guidelines (WCAG 2.0).
- Integrated two payment providers **KNET & GoTap** using **REST API**.
- Architected & Designed application features.
- Implemented a Responsive UI/UX design using **Bootstrap**.

Environment: Python, Django, REST API, HTML5, CSS3, WCAG, Bootstrap

Backend Developer | Databases Project

DATABASES PROJECT

September 2017 - December 2017

- Team Project to develop a Gaming tournament listing web application developed **C#** using **.Net Core** web application.
- Accountable for setting up and configuring **MySQL** database.
- Developed the database models and **SQL** queries for team development.
- Developed the authentication module for the web application.

Environment: .NET core, MySql, C#, Git

Research Assistant

Manhattan, KS

KANSAS STATE UNIVERSITY | REFERENCE #1

Spring 2015 - Spring 2016

- Contributed to a publication regarding Moving Target Defense.
- Moving Target Defense: The automation of deployment, deconstruction, reconfiguration, and migration while maintaining high availability to increase randomness and mitigate persistent attacks on nodes.
- Created and configured web applications for automated deployment using **Puppet**.
- Benchmarked web applications for analytical data with **HTTPERF** to ensure high availability and reliability while migration occurs.
- Created and tested the effectiveness of identical web applications in two different languages, using **Flask** and **Laravel**, with Moving Target Defense.
- Built and maintained infrastructure automation and deployment.
- Created a monitoring server to monitor lab infrastructure with **Nagios** to monitor uptime of infrastructure.
- Organized reference materials, visual aids and other materials as required by university professors.
- Conducted literature reviews, laboratory experiments and other research for use in scholarly publications
- Compiled research results and assisted professors in the analysis of results and the preparation of journal articles or papers.

Environment: Ansible, Puppet, Nagios, Flask, HTTPerf

Skills & Attributes

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|---------------------------------|--|
| Programming | Python (Intermediate), Dart (Intermediate), C#(Intermediate), HTML5/CSS3(Intermediate), PHP(Intermediate), JavaScript/TypeScript (Intermediate), Go(Prior Experience), C/C++(Prior Experience), Java(Prior Experience) |
| Tools | Ansible, Terraform, Packer, ESXi, OpenStack, Wireshark, Metasploit, Puppet, Git |
| Security Skills | Buffer Overflow, Network Analysis, Code Auditing, SQL Injection, Reverse Engineering Binaries, Network Forensics |
| Frameworks & Engines | Flask, Django, Flutter, Vue.js, React.js, Node.js, Express.js, Material-UI, MySQL, PostgreSQL, MongoDB, .Net Core, Laravel, Prism, .NET Core, Unreal Engine, Unity |
| Operating Systems | Linux, Windows Server |
| Notable Courses | Introduction to Applied Cryptography, Cyber Defense Basics, 3 Independent Study Courses (Security Engineering) |
| Languages | English (Fluent), Arabic (Fluent), French(Basic) |

Education

Kansas State University

Manhattan, KS

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

May 2018

- Scholarship from Ministry of Higher Education in Kuwait

Notable Courses

Introduction to Applied Cryptography

- Studied DES, RSA, HMAC, Hashes, Signatures, ElGamal Algorithms.

Security Courses

- Studied Security Engineering and Cryptography Engineering.
- Studied academic literature related to a broad range of cybersecurity topics.
- Studied academic literature regarding separation/microkernels.

Cyber Defense Basic

- Introductory Network Forensics, Basic exploitation of rootkits, Network Packet flooding.
- Final Project: Introduction to Cross Site Scripting and BeEF.

Extracurricular Activity

Cyber Defense Club

CORE MEMBER

Fall 2014 - May 2018

- Managed and Maintained cluster of servers in CDC infrastructure
 - Deployed and Maintained ESXi and Openstack for virtual hacking environment
 - Deployed and Maintained OpenVPN tunneling for students to access environment
 - Maintained Active Directory on Windows for club to have centralized authentication and ease of access between rest of infrastructure
 - Configured and Managed L2/L3 Enterprise Switch using Cumulus OS and maintained Firewall and Routing
 - Building and maintaining infrastructure automation and deployment.
- Competed in Iowa State's National Cyber Defense Competition 2015, 2014
- Competed in Boston Key Party 2016, SSCTF 2016, CSAW CTF 2015

Professional Development

Red Team Tactics for Red and Blue Workshop

South Dakota

TRUSTEDSEC, LLC

March 2018

- Training Session in Credential Gathering, Bruteforcing and Cracking Passwords, Domain Information Gathering, LLMNR/NBT-NS Poisoning, Privilege Escalation, Lateral Movement, DCSync Attack, Command Obfuscation, Post Exploitation