Syed Dawood Shah

Software Engineer

As an experienced software engineer with strong analytical skills, I specialize in backend development, cybersecurity, DevOps, and microservices architecture, leveraging a strong foundation in computer networks and operating systems. I excel in designing secure, high-performance systems and collaborate effectively in cross-functional teams.

✉ syed.dawood.shah23@gmail.com
📍 Pakistan
⌂ github.com/DawoodShah009

📱 03143039272
in linkedin.com/in/syed-dawood-shah-49a14a223

EDUCATION

Bachelor of Computer Science
Namal University Mianwali

09/2019 - 07/2023   *CGPA : 3.74*

Courses

- Web Development
- Software Engineering
- DataBase
- Machine Learning
- Computer Networks
- Internet of things
- Analysis of Algorithms
- Artificial Intelligence

WORK EXPERIENCE

Intern
Valyrian Systems Inc.

04/2022 - 07/2023

Achievements/Tasks

- Explored TCP/IP stack.
- Learnt C language.
- Explored CDN, gathered their AS info, and collected IPs owned by them.
- Focused on Analysis of data packets, explored signatures to block applications, and blocked many applications.
- Extracted only those data packets which were carrying Tweets from Twitter.
- QUIC decoding in progress.

Software Engineer
TechnoGenics SMC Pvt

08/2023 - Present

Achievements/Tasks

- Developed Multiple Microservices in Python.
- Maintenance and Optimization of Services in Cloud Infrastructure.
- System design and Implementation of Message Broker.
- Threat Modeling.
- Malware Analysis.
- Malware's Static and Dynamic Analysis Tools and Setup.

ORGANIZATIONS

Center of Excellence and Skill Development (2020)
Director Event Management

Center of Excellence and Skill Development (2020)
Human Resource

SKILLS

Python | C | JavaScript | Cybersecurity | NodeJs
Express | Tcp/Ip | IpTables | WireShark | Flask
SQL | MongoDB | Elastic Search | Apache Kafka
Docker | Kubernetes | Machine Learning | Git

UNDERGRADUATE PROJECTS

Final Year Project (07/2022 - Present)

- Classified different applications using rule-based technique.
- Blocked application based on Classification.
- Provided a solution that can be implemented on machines with low-computing power.
- Our project is a subset of an actual project being developed for PTA by Valyrian Systems Inc.

OS from Scratch (01/2022)

- Contains a 16-bit boot loader, 32-bit boat loader and a user program.
- User program is loaded from hard disk into memory by bootloader and on completion, control is returned to the boot loader.

Full Stack WebApp (05/2022)

- A real estate website designed using Flask for the back end and React for the front end. SignUp, login page, and Performed front-end Authentication.
- Used Axios for communication with back-end API. Maintained a DataBase for storing users information.

Store API (01/2023 - 01/2023)

- Created using Node.Js, Express, Mongoose
- Provided mechanism for filtering, sorting, pagination, limit etc.
- Check the ReadMe from my repository for more information

Elasticsearch-Flask Service (08/2023 - 08/2023)

- A service designed in Python in Microservice architecture for handling a Virtual Agent response.

Kafka-Python (09/2023 - 09/2023)

- A complete Message broker for handling the messages from multiple instances end and entertaining them with the appropriate service.

ACHIEVEMENTS AND INTERESTS

Merit Based Admission (2019 - Present)
Namal University Mianwali

Analyzing, Programming, E-Sport, Bodybuilding, Social Gathering