Syed Zain Ali Shah

Software Engineer

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Professional Summary

A versatile Software Engineer and M.Sc. Computer Science student with a strong background in full-stack development and data-intensive applications. My professional experience is highlighted by my work in a cybersecurity environment, where I architected and developed a comprehensive User and Entity Behavior Analytics (UEBA) platform using TypeScript and Angular. I am highly proficient in backend development with Python and Java, and have hands-on experience with both relational and non-relational databases. I am passionate about leveraging this diverse skill set to build scalable, data-driven software solutions.

Professional Experience

Software Engineer *03/2023 – 03/2024*
GhangorCloud (Cybersecurity)

- Architected and developed a scalable, component-based front-end for a User and Entity Behavior Analytics (UEBA) dashboard using Angular.
- Engineered a suite of custom data visualization components using TypeScript and Kendo UI to represent user risk scores, activity timelines, and behavioral anomalies.
- Collaborated closely with backend engineers to define and integrate RESTful APIs for near-real-time user and entity event data.
- Worked with UI/UX designers and domain experts to translate complex cybersecurity requirements into an intuitive and user-friendly interface.
- Optimized the application's performance and state management to handle large, continuous data updates without sacrificing interactivity.

Associate Software Engineer *09/2022 – 02/2023*

- Built responsive data visualization components, including dynamic charts and data grids, in Angular for the real-time analysis of large datasets.
- Enhanced application performance and stability by optimizing frontend logic and resolving long-standing bugs in the Angular codebase.
- Improved front-end styling and layout for data-centric applications using Bootstrap CSS for a more polished and usable interface.
- Fixed long-standing bugs and improved code structure across Angular components, directly enhancing maintainability.

Product Management Intern *07/2021 – 09/2021*
SphereWMS - Shispare

- Translated client needs into actionable development tasks by managing the product backlog, defining sprint goals, handling daily stand-ups and sprint planning.
- Designed detailed flowcharts and wireframes that served as a technical blueprint for the development team.

Education

Master Computer Science
Philipps-Universität Marburg, Germany
2024 – Ongoing
Bachelor Computer Science
National University of Computing and Emerging Sciences, Pakistan
2018 – 2022

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, C++, SQL

Frontend: React, Angular, Next.js, HTML5, CSS3, TailwindCSS, Bootstrap

Backend: Spring Boot, Node.js, Express.js, FastAPI, RESTful APIs

AI & Machine Learning: TensorFlow, Keras, Scikit-learn, OpenCV, NLTK, Pandas, NumPy, YOLOv4

Databases: PostgreSQL, MySQL, MongoDB

DevOps & Tools: Docker, Kubernetes, AWS, Git, GitLab CI/CD, Jira

Projects

Pineapple – Ecommerce Website (MERN Stack)
Took full ownership to build a complete e-commerce platform from the ground up using the MERN stack (React, Node.js, Express.js, MongoDB).
Typathon (Angular & TypeScript)
Created a responsive typing game to master modern front-end principles with Angular and TypeScript.
ERASE – Trash Detection System (Kotlin and Python)
Developed an end-to-end computer vision application, from data collection and model training to deployment on a Raspberry Pi and an app built using Kotlin.
DIGA (Digital Health Application) Project
Contributed to a medical informatics project at Marburg University Hospital, focusing on data processing and ensuring compliance with medical data privacy standards.
3D Pong Game (Java, JOGL)
Implemented a 3D game using Java and **OpenGL**, demonstrating a strong foundation in 3D graphics programming, collision detection, and rendering optimization.