europass

Fawad Iqbal

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ABOUT ME

Software Engineer with a strong background in full-stack development (MERN, Java, Spring Boot), automation testing (Selenium, TestNG), and AI/ML applications in medical imaging. Skilled in building and testing scalable systems, developing CNN-based models for image segmentation, and implementing IoT solutions using Arduino/Raspberry Pi. Proficient in REST API integration, embedded systems, and applying mathematical foundations to solve complex technical problems.

WORK EXPERIENCE

SPOTTROOP – KIEL, GERMANY

INTERN SOFTWARE ENGINEER – 01/04/2023 – 01/04/2024

- Developed full-stack web and mobile applications using **React.js**, **Node.js**, and **MongoDB** for an IoT-based smart parking system
- Designed and implemented backend APIs to handle real-time data from IoT sensors, enhancing system performance
- Built interactive dashboards with **map visualizations** to provide real-time parking and sensor data insights
- Collaborated in **Agile teams**, participating in sprint planning, stand-ups, and code reviews
- Containerized applications using **Docker**, enabling consistent development and deployment workflows
- Deployed services and dashboards on **AWS Cloud**, ensuring reliability and scalability
- Utilized **Git** for version control and contributed to CI/CD pipelines via **GitHub Actions**

PROJECTS

01/09/2024 – CURRENT

Liver Tumor Segmentation using Deep Learning

Developed a deep learning model for automatic liver and tumor segmentation from CT scans. The project involved preprocessing the LiTS17 dataset, converting 3D volumes to 2D slices, and training a cnn-based segmentation network. Achieved improved accuracy in medical image segmentation through extensive model evaluation and testing. This project was part of my Bachelor's degree final year thesis and contributed to research in AI-assisted diagnosis in medical imaging.

Link https://codecrood.vercel.app/dashboard

EDUCATION AND TRAINING

18/09/2021 – CURRENT Abbottabad, Pakistan

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING COMSATS University Islamabad, Abbottabad Campus

- Software development using Java, Python, and JavaScript
- Full-stack web development with MERN and Next.js
- Artificial Intelligence and Machine Learning (Supervised and Unsupervised Learning)
- Image processing and medical imaging analysis using Deep Learning
- Fundamentals of networking, databases, OOP, and IoT
- Automation testing using Selenium and TestNG
- Final year thesis: Liver tumor segmentation using deep learning

Website https://www.cuiatd.edu.pk/ | **Field of study** Software Engineering | **Final grade** 3.11 | **Level in EQF** EQF level 6 |

Thesis Liver Tumor Segmentation Using Deep Learning

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Programming & Development

Python (computer programming) | C++ | JavaScript | Node.js / Express | Java (computer programming)

AI & Machine Learning

machine learning | computer vision | deep learning

Testing & QA

Selenium Java and TestNG | Unit-Testing | Integration Test | automation testing | Postman | Regression Testing | API Testing | User acceptance testing

Web & App Technologies

MERN Stack (MongoDB, ExpressJS, ReactJS, NodeJS) | Next JS | Rest-APIs | Java / Java(Spring Boot) | GIT version control, Linux Command

IoT & Embedded Systems

Single Board Computers / Raspberry Pi | C/C++ for Microcontrollers