Saad Abdullah

Machine Learning | Software Engineer

Curious by nature, always seeking to learn, understand, and improve.

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EDUCATION

ERASMUS MUNDUS MASTERS IN DATA-INTENSIVE ENGINEERING (EDISS) |
ÅBO AKADEMI UNIVERSITY
2024 – Present | Turku, Finland
→ Selected as **1 of 27 students from 464 global applicants** for a competitive master's program bridging software engineering and data science.

BACHELOR OF COMPUTER SCIENCE (BSCS) | FAST - NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES (NUCES)
2019 – 2023 | Faisalabad, Pakistan
→ Graduated with a **4.0/4.0** CGPA in computer science, earning yearly honors for academic excellence.

EXPERIENCE

PROJECT ASSISTANT | ÅBO AKADEMI UNIVERSITY | TURKU, FINLAND
October 2024 – Present

➔ Contributed to the advancement of Åboat, an autonomous boat equipped with collision detection, LIDAR, GPS, and camera systems, supporting real-time navigation and testing.

TECHNICAL LEAD | A'STECHWARE | LAHORE, PAKISTAN
October 2020 – July 2024

➔ Led web application projects **driving 40% of company profitability**, managing development, testing, and optimization. Collaborated with cross-functional teams to ensure efficient troubleshooting and high-quality delivery.

PROJECTS

XRAI - PIPELINE FOR CLINICAL SEGMENTATION | MACHINE LEARNING
➔ Working on enhancing **explainability in medical image segmentation** models through the application of texture analysis, vision-language models, and saliency maps to improve decision-making and transparency.

MUTATION TESTING TOOL-BOX FOR DEEP LEARNING SYSTEMS | RUBY ON RAILS |
FASTAPI | KERAS | POSTGRESQL | EXPLAINABLE AI | MUTATION TESTING | MACHINE LEARNING
➔ Developed a comprehensive tool-box for **mutation testing in deep learning systems** to evaluate model reliability by simulating faults and identifying vulnerabilities within the models.

WORD OF MOUTH | RUBY ON RAILS | DOCKER | AWS | S3 | ELASTICSEARCH | REDIS
➔ Enhanced a top-rated **Australian review platform** with **millions of users**, integrating Stripe, HubSpot CRM, and Elastic Search, which improved user experience and **increased client sales by 35%**.

GOLFPAY360 | RUBY ON RAILS | JAVASCRIPT | CRONJOBS | SELENIUM
➔ Upgraded a **US-based Golf Course Management System** by implementing features that streamlined operations and enhanced revenue potential.

SKILLS

PROGRAMMING

Proficient:
C++ • C • Ruby • Python • CSS • HTML

Familiar:
Java • SQL • Assembly • C#

LIBRARIES/FRAMEWORKS

Tensorflow • PyTorch • Sklearn • PySpark • .NET • Pandas • Ruby On Rails

TOOLS/PLATFORMS

Git • Webpack • Heroku Linux • Docker • AWS • CI/CD

ACADEMIC ACHIEVEMENTS

- Achieved **100% CGPA in BSCS at FAST-NUCES CFD**, earning Gold Medals in all semesters as the **second student in the university's history** to do so.

- **Winner of 7th Programmers' Battle 1O1 C++**, Programming Fundamentals, FAST-NUCES.

EXTRACURRICULAR

VICE PRESIDENT
SUKHAN-FAST LITERARY SOCIETY
2022 - 2023 | FAST, Faisalabad

HEAD DEVELOPMENT TEAM
ASSOCIATION FOR COMPUTING MACHINERY (ACM) STUDENT CHAPTER
2021 - 2022 | FAST, Faisalabad