

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

→ **Courses (Skills):** Data Science, Machine Learning, Data Driven Computing, Cloud Computing, GPU Programming, Software Quality, Artificial Intelligence

BACHELOR OF COMPUTER SCIENCE (BSCS) | FAST - NATIONAL UNIVERSITY OF

COMPUTER AND EMERGING SCIENCES (NUCES)

2019 – 2023 | Faisalabad, Pakistan

→ **Courses (Skills):** Applied Machine Learning, Advanced Programming, Parallel and Distributed Computing, Operating Systems, Information Security, Software Testing

EXPERIENCE

PROJECT ASSISTANT | ÅBO AKADEMI UNIVERSITY | TURKU, FINLAND

October 2024 – Present

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

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 | CRONJOB | 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

- **Selected as 1 of 27 students from 464 global applicants** for a competitive master's program bridging software engineering and data science.
- 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 101 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