






Saad Abdullah

Software Engineer | Machine Learning

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EDUCATION

ERASMUS MUNDUS MASTERS IN DATA-INTENSIVE ENGINEERING (EDISS) |

ÅBO AKADEMI UNIVERSITY

2024 – Present | Turku, Finland

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

COMPUTER AND EMERGING SCIENCES (NUCES)

2019 – 2023 | Faisalabad, Pakistan

CGPA: 4.0 / 4.0

EXPERIENCE

PROJECT ASSISTANT | ÅBO AKADEMI UNIVERSITY | TURKU, FINLAND

October 2024 – Present

- Working on a smart, remotely controlled boat (Åboat) having capabilities such as collision detection, cameras, LIDAR, and GPS location.

SOFTWARE ENGINEER | A'STECHWARE | LAHORE, PAKISTAN

October 2020 – July 2024

- Core Responsibilities included developing, testing, and optimizing web applications. Collaborated with cross-functional teams to ensure smooth troubleshooting and high-quality delivery.

PROJECTS

XRAI - PIPELINE FOR CLINICAL SEGMENTATION | PANDAS | NUMPY | SCIKIT-LEARN

- 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

- 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 | ELASTIC SEARCH | REDIS

- Enhanced a top-rated Australian review site by implementing some features with Stripe, HubSpot CRM, and Elastic Search, contributing to improved user experience and operational efficiency within an existing dockerized architecture.

SCHEDULAR – AN AI BASED SCHEDULE MAKER | SIMULATED ANNEALING | FASTAPI

- Developed an AI-driven scheduling tool that optimizes exam timetables by minimizing clashes and maximizing efficiency, utilizing local search algorithms, specifically the simulated annealing algorithm.

GOLFPAY360 | RUBY ON RAILS | JAVASCRIPT | CRONJOBS | SELENIUM

- Enhanced a Golf Course Management System for the US market by implementing features that improved client operations and boosted revenue.

SKILLS

PROGRAMMING

Proficient:

C++ • C • Ruby • Python • CSS • HTML

Familiar:

Java • Shell • Assembly • C#

LIBRARIES/Frameworks

jQuery • Ruby On Rails • Selenium • .NET • StimulusJS • TensorFlow

TOOLS/PLATFORMS

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

ACADEMIC

ACHIEVEMENTS

- Achieved a 100% CGPA in BSCS, making history as the second student to do so at FAST-CFD.
- Consecutive Gold Medals (1st-8th Semester), BSCS, FAST-NUCES.
- 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