Farhan M. Abdul Qadir

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Education

King Fahd University of Petroleum and Minerals — September 2018 – May 2022 (in progress)
BS Computer Science — *Dhahran, Saudi Arabia*

- **Cumulative GPA: 3.97/4 (First Honors)**
- First Class distinction in all semesters

International Indian School Dammam — April 2003 – May 2017
All India Senior School Certificate Examination — *Dammam, Saudi Arabia*

- Gold Honor Roll, CGPA 10

Experience

Research Assistant — May 2021 – Present
Center for Environment and Marine Studies, Research Institute, KFUPM

- Used industrial and demographic data to model greenhouse gas emissions for the Middle East
- Paper approved for a fully funded international conference by Undergraduate Research Office, KFUPM after enhancement
- Driver at Fault Detection using deep learning

Software Developer Intern — June 2020 – August 2020
Advanced Micro Technologies Co.

- Developed Customer Relationship Management web solution using Java, Gradle, HTML, CSS, Apache
- Found potential strategies by data extraction, clustering and analysis from inventory and customer database
- Improved company project approval workflow time by over 50%

Grader — September 2021 – Present
Information and Computer Science Department, KFUPM

- Responsible for grading assignments of 100 students for Algorithms Course (ICS 353)
- Appointed as grader from January 2022 - May 2022 for Graduate Deep Learning Course (ICS 504)

Competitive Programming Club — September 2019 – Present
Member

- Qualified to represent KFUPM in the 10th Gulf Programming Contest 2020 (Postponed due to COVID-19)
- Secured 2nd Position in the placement competition held internally in the University

Team Projects

Arabic Sign Language Recognition — October 2021 – Current
Research Project

- Normalized the video dataset recorded in KFUPM(CS department) to 80 frames
- Performed word embedding to represent the ground text truth
- Used encoder-decoder with attention and transformer model in PyTorch, with WER metric

Riyadh Metro Route Map
January 2021 – April 2021

Team Leader

- Generated a visual transit network in Python from excel file containing list of stations and coordinates
- Implemented a graph of routes, stations and distances using the NetworkX library
- Calculates shortest and cheapest route given source and destination station using MatPlotLib to display

KFUPM Clubs Management Application
August 2020 – January 2021

- Developed for club leaders and members to manage club projects, resources and approvals
- Written in Java and mySQL, deployed Database in Cloud using Amazon Web Services RDS
- Utilised JavaFX, Gluon Scene Builder, JFoenix Framework and CSS for frontend

MailMerge Application
January 2019 – May 2019

Team Leader

- Full stack application that creates personalised PDF files from templates and sends e-mails to recipients
- Written in Java and utilised JavaMail API, JavaFX and iTextPdf library

Honors and Awards

Academic

- Full Tuition Waiver and monthly stipend from Ministry of Education in KFUPM (given to a handful of international students)
- National Entrance Examinations - Scored 98 in GAT(Qudrat) and 89 in SAAT(Tehseeli)
- Certificate of completion of Summer Undergraduate Research Experience program in KFUPM
- Certificates of Academic Excellence from Physics department in Physics 101 and 102
- Award for Excellence in Writing from English Language Department
- 790/800 in SAT Math, 110/120 in TOEFL IBT, 657/677 in TOEFL PBT

Extracurricular

- Winner of last 4 badminton tournaments organised by KFUPM Sports Club
- Winner of U17 KSA Badminton National Competition and participant in Nationals held in Varanasi
- Multiple time winner of regional badminton championships
- Multiple time medalist in KFUPM Chess Blitz and Rapid Competitions
- Captain of KFUPM Chess Team participating in Collegiate Chess League for International Universities

Selected Individual Projects

Weather Phenomena Detection

Deep Learning using PyTorch

- Used custom self developed CNN models and several pre-trained models on a dataset procured by researchers last year
- Achieved close to state of the art results obtained by the researchers in their paper by using pre-trained Vision Transformer Model

N Queens Algorithmic Solver

Artificial Intelligence algorithms in Python

- Implemented A*, Genetic, Backtracking algorithms with filtering, heuristics to solve the N Queens problem
- Developed a Graphical User Interface to generate N*N Chessboard with the solution using PyQt and PyGame

Santorini Game

› Implemented Santorini, a turn-based strategy board game in Java

Skills

Programming Languages Python, Java, C, C++

Tools Libraries PyTorch, Keras, Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn

Relevant Courses Machine Learning, Deep Learning, Big Data Analytics, Artificial Intelligence, Operating Systems, Data Structures, Database Systems, Algorithms, Computer Networks, Software Engineering Fundamentals, Discrete Structures, Linear Algebra, Web Development

Leadership Volunteer and Member of IET, VP of ToastMasters Club, Student Body Leader

Languages English, Urdu, Hindi, Arabic (intermediate)