Abshar Mohammed Aslam

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EDUCATION

- **Birla Institute of Technology and Science**   Dubai, UAE
  Bachelor's of Engineering in Computer Science; CGPA: 8.98   *Sep. 2019 – Aug. 2023*

- **Gulf Asian English School**   Sharjah, UAE
  Higher Secondary Education; Grade: 92%   *Apr. 2007 – Mar. 2019*

EXPERIENCE

- **ESRI**   Sharjah, UAE
  Incoming Software Engineer Intern   *Aug. 2022 - Present*
  - Automated development workflows of ArcGIS Image Dedicated (AID) using GitHub Actions.
  - Integrated inspection standards to AWS EKS across various regions using Prometheus and Grafana.
  - Developed the testing workflow for all the Imagery Services (REST APIs) within ArcGIS Image Dedicated.
  - Optimized the Build processes within AWS CodeBuild using multi-threading.
  - Fixed multiple security issues within ArcGIS Image Dedicated to improve code quality.

- **Emirates**   Dubai, UAE
  Revenue Optimization Intern   *Jun. 2021 - Aug. 2021*
  - Developed a novel machine learning Clustering Model to analyze clusters of Emirates SkyCargo profiles.
  - Built a web tool to facilitate the team to view the cluster profiles using Plotly.
  - Integrated the Clustering Model with Azure to allow real-time data analysis of Cargo at Emirates.

PROJECTS

Arabic Natural Language Processing and Sentiment Analysis: Mar. 2022
  - Developed an NLP Model to recognize the Arabic Language, including all its dialects from the Middle East Region.
  - Scrapped Tweets of various Arabic Dialects to create a corpus to train the NLP Model.
  - Designed a tool using the created NLP Model to analyze the sentiment of any prompt in Arabic.

Instance and Semantic Segmentation using Mask-RCNN and ArcGIS: Nov. 2021
  - Developed a model to find instance and semantic segments of roads, buildings, and swimming pools, from the data from the ArcGIS Platform (ArcGIS Python API).
  - Created a front-end using Dash framework, to easily navigate through the map and find segments in real-time.
  - Deployed the front-end using GitHub Actions CI/CD for a better workflow.

Game AI for Super Mario Bros: Nov. 2021
  - Developed a Game Playing AI using Deep Reinforcement Learning, to navigate through the map of the game "Super Mario Bros" and score the maximum possible.
  - Included various Stochastic Functions to ensure smooth functioning of the Game AI.

Open DSA: Feb. 2021
  - An open-source library containing the implementation of many essential Data Structures and Algorithms.
  - Data structures include from basic Stacks and Queues to advanced Trees and Graphs.
  - Algorithms such as various Sorting and Searching techniques and more.
  - Each topic detailed from their time complexities to their applications.

TECHNICAL SKILLS

Languages	Python, C++, C, JavaScript, Java
DevOps	Docker, Kubernetes, Terraform, Packer, GitHub Actions
AWS	S3, EC2, EKS, CodeBuild, DynamoDB, SQS, SES
Databases	MySQL, PostgreSQL, MongoDB
ML/AI	Tensorfow, Scikit-learn, Natural Language Tool Kit, OpenCV
Data Analytics	Pandas, Numpy, Matplotlib, Plotly, MySQL, Beautiful Soup
Web Technologies	HTML, CSS, Django, Flutter
Miscellaneous	Git, Selenium, Linux, Bash, PowerShell

Relevant Coursework

- Data Structures • Design & Analysis of Algorithms • Operating Systems • Compiler Construction
- Database Systems • Theory of Computation • Computer Networks • Artificial Intelligence • Deep Learning
- Data Mining • Object Oriented Programming • Discrete Structures • Logic in Computer Science
- Computer Architecture • Principles of Programming Languages • Optimization

Achievements

- Finalists for *GCC's Eureka Startup Competition 2021*.
- Conducted an 8-week Coding Bootcamp (with support from *GitHub*).
- Conducted a workshop on "Open-Source", in collaboration with *IBM, AWS, Microsoft Reactor*, and *AstroLabs Dubai*.
- Conducted a 6-week Machine Learning Bootcamp, with 500 AED+ sponsorship from *GitHub*.
- First GitHub Campus Expert from the GCC Region.
- Among top 50 Coders in *Skyline Coding Challenge*.
- Best Outgoing Student Award - *Gulf Asian English School*

Leadership

- **President**
  Aug. 2022 - Present
  Alumni Relations Division, BPDC

- **Secretary**
  Jun. 2021 − Present
  ACM BITS Pilani Dubai Campus

- **Day Scholar Rep.**
  Dec. 2020 - Present
  BITS Pilani Dubai Campus

- **General Secretary**
  Aug. 2021 - Aug. 2022
  Alumni Relations Division, BPDC

- **Head Boy**
  2018 - 2019
  Gulf Asian English School

- **Asst. Head Boy**
  2017 - 2018
  Gulf Asian English School

Community

- **GitHub Campus Expert**
  Jun. 2021 − Present
  GitHub

- **Microsoft Learn Student Ambassador**
  Oct. 2021 − Present
  Microsoft

- **Student Champion**
  Nov. 2020 − Present
  Expo 2020

- **AngelHack Student Ambassador**
  Jun. 2021 − Present
  AngelHack

Miscellaneous

Languages: English, Malayalam, Hindi, Arabic, Urdu

Blog: https://abxhr-learning.vercel.app/

LinkedIn: https://linkedin.com/in/absharaslam