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*

- **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-application from scratch to facilitate the Revenue Optimization Team at Emirates SkyCargo, using Plotly Dash Framework, for easier access to cluster profiles.
  - Integrated the Clustering Model to SkyCargo's Microsoft Azure workflow, to allow real-time data analysis, and for continuous future usage.

- **Open-Source**
  Contributor   *Nov. 2020 - Present*
  - Contributed to 10+ organizations on GitHub, including ESRI, Microsoft, and AsyncAPI.
  - Handled Issues, Pull Requests, and Code Reviews for multiple projects.
  - Maintained a project (Open-DSA) during Hacktoberfest.

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 analyze sentiments regardless of uniquesentence structuring for each dialect.

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#
Web Technologies	HTML, CSS, Django, Flutter, Figma
ML/AI	Tensorfow, Scikit-learn, Natural Language Tool Kit, OpenCV
Data Analytics	MPandas, Numpy, Matplotlib, Plotly, MySQL, Beautiful Soup
Miscellaneous	Git, Linux, Bash, MIPS, Assembly, Latex

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

• Semi-finalists for *GCC's Eureka Startup Competition 2021*.
• Conducted an 8-week Coding Bootcamp (with support from *GitHub*).
• Conducted a workshop on Open-Source Contributions, in collaboration with *IBM*, *AWS*, *Microsoft Reactor*, and *AstroLabs Dubai*.
• Conducted a 6-week Machine Learning Bootcamp, with 500 AED+ sponsorship from *GitHub*.
• Selected for *GitHub Campus Experts Program* by *GitHub* among thousands of applicants, to be the first Campus Expert in the *GCC*.
• 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

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

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

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

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

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

Community

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

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

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

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

Miscellaneous

Languages: English, Malayalam, Hindi, Arabic, Urdu
Blog: abxhr-learning.vercel.app/