

Daud Nadeem

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Education

- M.Sc. Advanced Computer Science, University of Newcastle upon Tyne. (2017-2018)
Courses: *Machine Learning, Cloud Computing, Big Data, Distributed Algorithms.*
- Bachelor's of Computer Science (Partial Scholar) CGPA: 3+ (2011-2015)
Institute of Management Sciences, Peshawar, Pakistan.
Courses: *Data Structures and Algorithms, Assembly Language, Computer Architecture and Organization, Artificial Intelligence, Digital Logic and Design, Probability and Statistics, Discrete Structures, Compiled Construction, Theory of Automata, Cryptography.*
- Cambridge O/A levels – Edwardes College, Peshawar. (2007-2011)

Key Projects

High Throughput Computing Light

Organised and built a system to solve computationally intensive jobs in parallel on a remote server.

Used Python, Bash, MySQL to run this system on AWS (EC2) Ubuntu.

PhotOn

Planned, designed and implemented a webpage called Photography Online (PhotOn) using HTML5, CSS3, PHP and JavaScript connected through a WAMP server.

Machine Learning

Attempted Kaggle Titanic dataset challenge (Implemented different ML algorithms on a cleaned dataset with visualizations to find patterns) noticed a 10% rise in accuracy using Logistic Regression.

Cloud Computing

Deployed a Web Application, performed benchmarking and monitoring using Docker, Python, Google cAdvisor and mongoDB.

Big Data

Built a recommender system based on Netflix dataset using PySpark and Jupyter notebooks.

Other Projects

- Designed and programmed Wave and Election algorithm simulation in Java.
- Modelled a system and validated using Promela (Spin).
- Engineered and implemented a music library in Java.
- Performance Measurement and Load Balancing of remote server using SNMP in Bash.
- Performance Modelling of an M/M/1/N queue using PEPA.

Leadership

- Organised a mass-scale convocation for 15 batches of students; due to security purposes needed a mechanism to control who entered the venue. Henceforth, I created a MySQL database to centralize the issue, manually uploaded thousands of photographs of each student, linked it to their name and ID to be accessed at the time of entry to event. (This problem was handled two days prior to the event)
- Coordinated group project on Train Simulations by dividing the larger task into smaller tasks among novice group members, created repository on GitHub and presented on behalf of the group.

Additional Skills

- Python
- Java (Beginner)
- Docker
- Proficient with Command-Line-Interface
- (BASH) Shell Scripting
- Amazon Web Services
- MySQL
- Worked in a UNIX environment