Abdul Wahab

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EDUCATION

FAST- National University of Computer & Emerging Sciences (FAST-NUCES)   **2018 – 2022**

Bachelor of Science (Computer Science) - CGPA: **3.99/4.00** – **Summa Cum Laude**.

- Listed 5 times in Rector's List of Honors & 2 times in Dean's List of Honors.
- Awarded **Gold Medal**, graduated Summa Cum Laude (higher honors – Batch topper).
- Awarded fully-funded merit-based scholarship by SYSTEMS Limited in the final year (21-22).
- Received funding from IGNITE – NGIRI, Pakistan for the Final Year Project.
- **Final Year Project**: Developed a Ruby-on-Rails web application with PostgreSQL that serves as an interactive platform for students from various universities to discuss academic queries and share academic content.

AIMS Cambridge System   **2014 – 2018**

GCE A-Levels, Grade: 2A*s, 1A

GCE O-Levels, Grade: 3A*s, 2As, 2Bs

- Awarded **Star of the Year** on securing the top position consecutively.

PROFESSIONAL EXPERIENCE

Qbatch   **Lahore, Pakistan**

Software Engineer   **July 2022 – Present**

- **Optimization**: Enhanced the ruby-on-rails backend in **3** projects by refining database schema, resolving database deadlocks with PostgreSQL's 'skip locked' & utilizing AWS services (OpenSearch, S3 & SQS), hence improving performance and maintainability by notable margins.
- **Improved Search Performance:** Shifted database searches to Elasticsearch, resulting in a significant 50% reduction in search query processing times.
- **Implemented Cost-Effective Measures:** Managed server operations, implemented tiered S3 storages & AWS Lambda resulting in considerable reduction in operational costs within AWS infrastructure.
- **Enhanced Background services Efficiency:** Restructured services into independent, parallel components, ensuring idempotence and robustness, resulting in a 60% reduction in execution time of service handling 2.5M+ datasets weekly.
- **Implemented Security Measures:** Deployed Captcha, API throttling, addressing vulnerabilities, resulting in a more than 50% reduction in bot-attacks on the website.
- **Teamwork**: Collaborated in a 5+ member development team, providing design solutions to meet technical requirements and resolving conflicts, resulting in improved team productivity.

DevDen   **Faisalabad, Pakistan**

Junior Software Engineer   **July 2021 – Sept 2021**

- **Code-quality**: Gained valuable technical experience and improved clean-coding skills in Rails development by working on a demo food-ordering application under the mentorship of a senior developer.

CERTIFICATES & TRAINING

Career-Prep Fellow - AMAL Academy   **Nov 2022 – Feb 2023**

Completed a competitive written application and interview process to be selected from over 6000+ applicants for an intensive 3-month Fellowship to develop interpersonal, leadership & teamwork skills.

AWS Certified Cloud Practitioner – Certification   **2023**

Docker Essentials Online – Udemy   **2022**

Microsoft MTA 98-361: Software Development Fundamentals - Certification   **2020**

PROJECTS

StoreFilter – Qbatch   **Nov 2022 – Present**

Diverse requirements to solution: Developed Backend of StoreFilter, a data-intensive Ruby on Rails project using PostgreSQL, Docker & Kubernetes for real-time eCommerce & Shopify Stores reporting. Resolved Database deadlocks & optimized SQL structure for weekly updates of 2.5M+ dataset.

CLUSTBY – Final Year Project, FAST - NUCES   **Sept 2021 – June 2022**

Requirements to code: Developed a Ruby-on-Rails web app with PostgreSQL, funded by IGNITE – NGIRI, for inter-university students' collaboration and information sharing. Recognized by evaluators for well-documented and clean code.

VOLUNTEER/ ACADEMIC EXPERIENCE

Daira'22 – Olympiad at FAST-NUCES   **Mar 2022**

Managed guest protocols and supervised a 5-member team for effective execution at the Olympiad.

Teaching Assistant at FAST-NUCES   **Feb 2021 – June 2022**

Facilitated teaching Database Systems Lab & Algorithms course, conducting interactive sessions for **40+** students, resolving their academic queries, hence developing a productive learning environment.

AWARDS AND HONOURS

- Awarded **Degree Gold Medal** on securing the top position in Bachelor's Degree.   **2022**
- Awarded **Rising Star Award** on the impressive performance at **Qbatch**.   **2022**
- Secured **funding** worth PKR 67k from IGNITE-NGIRI for the Final Year Project (**CLUSTBY**).   **2022**
- Awarded fully-funded merit-based **scholarship** by SYSTEMS Limited in the Bachelor's final year.   **2021-22**
- Recognized 5 times in **Rector's** and 2 times **Dean's** List of Honors.   **2018-22**
- Received **7** Semester **Gold Medals** during Bachelor's degree.   **2018-22**

TECHNICAL EXPERTISE

- **Languages & Frameworks**

  Java | Ruby | Python | C | C++ | C# | Ruby on Rails | ASP.NET MVC | C# WPF MVVM

- **Databases & Data Management**

  Oracle | PostgreSQL | Microsoft SQL Server | MySQL | MongoDB | Redis | Elasticsearch

- **Frontend Web Development**

  HTML | CSS | JS | SASS | CoffeeScript

- **Backend Tools & Technologies**

  RestAPIs | NGINX | Heroku | Postman | Swagger | GraphQL | Docker | Linux | Microservices | Sidekiq – Rails | Kubernetes

- **Agile Development & Version Control**

  GitHub | Bitbucket | AWS CodeCommit | Git version control | ClickUp | Jira

- **AWS Cloud**

  OpenSearch | EC2 | SQS | Lambda | SES | SNS | CloudWatch | RDS | S3 | API Gateway

- **Networking & Protocol**

  Wireshark | TCP/UDP | Socket Programming

- **Testing & Performance**

  Junit | JMeter | RSpec

- **Parallel & Low-level communication**

  Parallel Programming | OpenMP/MPI