

Ahmad RAHMAN

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EDUCATION

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| JUN 2021 | Master of Science (COMPUTER SCIENCE), University of Saskatchewan , SK Thesis: “Deadline-Aware Reservation-Based Scheduling” |
| MAY 2016 | Bachelor of Science (COMPUTER SCIENCE) <i>summa cum laude</i> , NUCES, Karachi |

SUMMARY OF RELEVANT SKILLS

- **Advanced Web and Server-Side Development:** Developed dynamic web and mobile applications using languages including JavaScript, PHP, HTML, CSS, Python, Java, C#, and C++.
- **Database Management:** Skilled in managing and optimizing both relational and non-relational databases such as MySQL, MariaDB, Postgres, and HDB, significantly improving data accessibility and integrity.
- **AI Systems Development:** Innovatively developed generative AI systems, contributing to cutting-edge technological advancements and practical applications in data analysis and automation.
- **Mobile Development:** Experience with mobile development languages such as Swift, Java, and C#
- **Problem-Solving:** Demonstrated ability in troubleshooting and debugging complex code, leading to a reduction in downtime and increased system performance.
- **Version Control and Integration Tools Mastery:** Efficiently managed code and project development using tools like GIT and Apache SVN, fostering a culture of collaboration and continuous integration.
- **Collaborative Team Player:** Proven track record of working effectively in collaborative environments, bringing together diverse stakeholders, and fostering inclusive team dynamics.
- **Continuous Professional Growth:** Committed to lifelong learning, consistently updating my skill set with the latest technologies and industry trends.
- **Effective Communication and Organization:** Demonstrated strong communication and organizational skills, playing a pivotal role in building and sustaining connections with various campus groups and coworkers, leading to successful project outcomes.

EXPERIENCE

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| Full-Stack Software Engineer UNIVERSITY OF SASKATCHEWAN, <i>Virtual Health Hub</i> | Feb 2023 - Present Saskatoon, SK |
| <ul style="list-style-type: none">• Developing innovative solutions to improve access to healthcare for vulnerable populations in Saskatchewan by facilitating the use of remote presence robotics.• Developing innovative generative AI applications, utilizing advanced techniques in Large Language Models to enhance student learning and research productivity. | |

- Leading the development and implementation of cloud-based server migration, focusing on creating scalable and efficient cloud solutions that enhance operational performance.

Programmer

UNIVERSITY OF SASKATCHEWAN, *ResrchLibrary and DataCtr Tech*

Aug 2021 - Feb 2023

Saskatoon, SK

- Developed data-driven applications, high-performance databases, and data warehouses for research projects at the Digital Research Centre (DRC).
- Developed high-performance databases and data warehouses with high reliability for several research projects at the DRC.
- Developed AI models and Large Language Models to analyze and report large-scale data for the Archives Unleashed project.
- Presented AI models and original research at Internet Archives conference 2023
- Responsible for gathering, defining, documenting, and maintaining requirements in collaboration with business clients.
- Developed data models and transformed data into usable information and insights.
- Cleaned, pre-processed, restructured, and ingested large amounts of data into Drupal with faceted Solr Search using Python, MySQL, and Drush.
- Presented DRC's Data Sustainability Strategy at Access Conference 2022
- Worked in collaboration with multiple research groups from different colleges as well as other non-profit organizations such as SHFS.
- Responsible for setting up, configuring, and maintaining locally hosted ArcGIS servers.
- Developed and deployed high-performance web-scrapers for websites with complex structures.
- Notable projects include the Canadian HGIS Project, Roberts' Bibliography, Archives Unleashed Project, Sask Music Collection, and Sask History.

Software Engineer

NETPACE

Apr 2019 - Apr 2020

San Francisco, CA

- Led the conceptualization, planning, and architecture design for 3 major products, improving system efficiency by 20%.
- Built and implemented 3 AI models, including Large Language Models, analyzing over 10TB of data for financial market applications, contributing to a 25% increase in predictive accuracy.
- Served as a technical lead on 3 projects, successfully designing and collaborating on the technology stack, resulting in a 20% reduction in development time.

Software Engineer

NETPACE

Jun 2016 - Dec 2016

San Francisco, CA

- Led 2 teams through the complete software development life cycle, resulting in successful delivery on schedule.
- Conducted Hadoop and Spark training for 25+ engineers, enhancing team capabilities in Big Data technologies.
- Pioneered the company's first Big-Data project using Hadoop and Hive, accurately predicting stock prices for 100+ assets.

SCHOLARSHIPS AND CERTIFICATES

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| 2022-2023 | Administrative and Supervisory Personnel Association (ASPA) Merit Award |
| 2021-2022 | Administrative and Supervisory Personnel Association (ASPA) Merit Award |
| 2017-2019 | MSc Department of Computer Science Scholarship |