

Rehan Sarwar

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ABOUT ME

Rehan Sarwar is a skilled integration developer with a strong background in computer science and a passion for innovation. With 3 years of experience at Aamanto Technologies Inc. and a master's degree in computer science specializing in Deep Learning and Internet of Things, Rehan brings a comprehensive understanding of complex systems and cutting-edge technologies. Known for his commitment to excellence and meticulous attention to detail, Rehan consistently delivers high-quality results. Outside of work, he remains actively engaged in continuous learning, keeping up-to-date with the latest advancements in the field of computer science.

EDUCATION

NFC Institute of Engineering <i>MS Computer Science; CGPA: 3.06/4.00</i>	Multan, Pakistan <i>Nov 2020 – Jun 2023</i>
COMSATS University <i>BS Computer Science; CGPA: 2.94/4.00</i>	Abbottabad, Pakistan <i>Jan 2016 – Jan 2020</i>

CERTIFICATION

Deep Learning Specialization <i>Coursera</i> https://www.coursera.org/account/accomplishments/specialization/certificate/FRRT7L2G3DXF	<i>Nov 2019 – Feb 2020</i>
Mathematics for Machine Learning: Linear Algebra <i>Coursera</i> https://www.coursera.org/account/accomplishments/certificate/QSMY4MQYN689	<i>Jul 2019 – Aug 2019</i>
NodeJS Microservices: Breaking a Monolith to Microservices <i>Udemy</i> http://ude.my/UC-2e2ab735-237d-4ee1-94bc-f5e4a4e8e50c	<i>Dec 2021 – Jan 2022</i>
Modern GraphQL with Node - Complete Developers Guide <i>Udemy</i> http://ude.my/UC-3b67f164-a657-42e5-9e79-898bae6c7015	<i>Feb 2022 – Mar 2022</i>
The Complete Apache Kafka Practical Guide <i>Udemy</i> http://ude.my/UC-57b536d5-10de-4e82-a8dc-c6f205db0673	<i>May 2023 – Jul 2023</i>

RESEARCH EXPERIENCE

Vibration Control Devices for Building Structures and Installation Approach: A Review <i>DOI: 10.2478/ceer-2019-0018</i>	<i>Jun 2019</i>
<ul style="list-style-type: none">This review paper has highlighted comprehensively, the energy dissipation mechanism, effectiveness of vibration control devices, and the importance of installation techniques to control the response of buildings and ensure the performance within economic cost.	

PUBLICATION

Sarwar, Waseem & Sarwar, Rehan. (2019). **Vibration Control Devices for Building Structures and Installation Approach: A Review**. Civil and Environmental Engineering Reports. 29. 74-100. 10.2478/ceer-2019-0018.

WORK EXPERIENCE

Integration Developer

Aamanto Technologies

Mississauga, Canada

Feb 2021 – Current

- Developing and maintaining backend systems
- Database management, including designing schemas and writing SQL queries
- Designing and implementing authentication and authorization systems using AWS Cognito or similar services
- Integration with third-party services, such as payment processing or social media APIs
- Developing serverless architectures using AWS Lambda or other serverless frameworks
- Setting up deployment pipelines for continuous integration and continuous deployment (CI/CD)
- Mentoring and providing technical guidance to junior developers
- Conducting code reviews and ensuring code quality and best practices
- Researching and evaluating new technologies and frameworks to enhance backend development

PROJECTS

Integrated Recruitment Portal — [Link](#)

- I successfully conceptualized, designed, and developed an advanced Integrated Recruitment Portal. This dynamic web-based platform serves as a centralized hub connecting job seekers, employers, and agencies, streamlining the hiring process and fostering efficient talent acquisition.

IoT Based Gas-Powered Water Heater

- This project's primary objective is to design an IoT-based gas-powered water heater and upgrade the manually controlled water heater with the smart system. Users can control entirely with the help of a smartphone in which force on/off, limits the temperature and sets multiple on/off schedule. The smart system consists of economical electronic components and an Android smartphone.

IoT Based Smart Security System

- The security system is based on four components Infrared transmitter, Infrared receiver, Alarm system, and GSM module. Whenever there is an interruption in the rays' path, the system is activated by ringing and calling to the owner.

SKILLS

Backend Development: Javascript(Nodejs, ExpressJs) / GraphQL API / Apache Kafka (Streams, Connect) / SQL / PostgreSQL

Cloud Computing: AWS RDS / AWS CodeCommit / AWS CodeBuild / AWS - Lambda / AWS Codepipeline / AWS CodeDeploy / AWS S3 / AWS EC2 / AWS Amplify / AWS IAM / AWS Route 53

DevOps: Web Hosting (Filezilla Cpanel Directadmin Plesk) / Domain Management

Machine Learning: Python (Tensorflow, Keras and Pytorch)

Development Tools: Visual Studio Code / JetBrains DataGrip / Postman API Testing and Documentation

Office Productivity Tools: MS Office (MS Word, MS Excel, MS Outlook, MS PowerPoint, MS Access, MS OneNote, MS Visio, MS Teams)

Research Interests: Machine Learning / Computer Vision / Neuroimaging / NLP / Casual Machine Learning / Graph Representation Learning

RELEVANT COURSEWORK

Major Coursework: Machine Learning, Artificial Neural Network, Research Methods, Calculus I-II, Electrical Circuits I-II, Digital System Design, Numerical Methods, Probability Theory, Signals and Systems, Introduction to Object-Oriented Programming, Data Structures and Algorithms, Relational Database Management System

LANGUAGE SKILLS

- English
- Urdu
- Punjabi
- Hindi
- Saraiki

HOBBIES

- **DIY Electronics**
- **Coding Personal Projects**
- **Movie Making & VFX**