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EXPERIENCE

- **AI / ML Researcher** May 2021 - Present
University of Manitoba *Winnipeg, Canada*
 - **Deep learning & Photogrammetry:** Detection and localization of damage in building structures.
 - **Computer Vision:** Object detection API's for robotics control.
 - **Web application for robotics applications:** Developing AWS-based web apps for monitoring and visualization of UAV missions.
- **Full Stack Web-Developer** Feb. 2018 - Feb. 2020
PMR Unit *Peshawar, Pakistan*
 - **Open data Portal:** Designed and Developed user-friendly Open data Portal **opendata.kp.gov.pk**, to allow access of the public to government data via web interface and APIs.
 - **MERN Stack:** Developed NodeJs, React, express, and MongoDB-based web applications with extensive CRUD operations
 - **Deployment:** Managed PostgreSQL database, NGINX, Redis, and Apache server of deployed project.
 - **AGILE project development:** Execution of projects using AGILE methodology.
 - **Cloud deployment:** Using AWS EC2, IAM, S3, Lambda, CDK for deployment purposes.
 - **Git and Dockers:** Used git and dockers for efficient project development.
- **Front-end Development Intern** Summer 2019 (6 months)
Code for Pakistan *Peshawar, Pakistan*
 - **UI/UX Workshops:** Participated in workshops focused on enhancing user experience, emphasizing user-centric design and color schemes.
 - **Web Development:** Contributed to building responsive web applications using React-JS and Material-UI frameworks.
- **Technical Support Engineer** June 2016 - June 2017
Clary Icon Pvt. Ltd. *Islamabad, Pakistan*
 - **Data Analysis and Visualization:** Engaged in data extraction, visualization, and in-depth analysis to support decision-making processes.
 - **Website Debugging:** Identified, diagnosed, and rectified website issues, ensuring seamless user experiences.

EDUCATION

- **PhD candidate in Mechanical & Mechatronics Engineering,** May 2023 – May 2027
University of Waterloo, *Waterloo, Canada*
- **Master in Civil Engineering,** May 2021 – May 2023
University of Manitoba, *Manitoba, Canada*
- **Bachelor in Electronics Engineering,** Aug 2012 – June 2016
GIK Institute, *Swabi, Pakistan*

AWARDS AND CERTIFICATIONS

- **Amazon Web Services:** Solutions Architect - Professional, KPITB Certified. Issued Jun 2020.
- **Deep Learning with Pytorch: Zero to GAN's:** Jovian. Issued Jul 2020. Skills: Machine Learning
- **Neural Networks and Deep Learning:** Coursera. Issued Apr 2020.

SKILLS

- **Languages:** C++, Python, JavaScript (including TypeScript), PHP.
- **Frontend:** React.Js with Next.Js, API Integration, Redux, Material UI.
- **Backend:** ExpressJS, API Development, MongoDB, PostgreSQL.
- **DevOps & CI/CD:** GIT, GitHub Actions, Docker, AWS, Heroku.
- **Deep Learning & Computer Vision:** PyTorch, CNN, Metrics, Unreal Engine, 3D Reconstruction, Photogrammetry.