

EDUCATION

MS	Masters in Computer Science <i>Universität Rostock, Rostock, Germany</i>	2019 – Present
BS	Bachelors in Computer Science <i>Bahria University, Karachi, Pakistan</i>	2014 – 2018
MPP	Microsoft Professional Program – Front End Development <i>Microsoft – EdX</i>	2017 - 2018
DAFM	Diploma in Advertising & Film Making <i>ARENA Multimedia</i>	2016 - 2017

WORK EXPERIENCE

Research Assistant, <u>Max Planck Institute - DEMOGR</u>	July 2020 – Continued
<ul style="list-style-type: none">• Data collection and Information retrieval for various federally funded demographic research projects.	
Research Assistant, <u>Fraunhofer IGD</u>	Feb 2020 – Continued
<ul style="list-style-type: none">• Development of variety of UI modules for in-house machine learning projects.• Developed ways for efficient calibration testing, image improvement and other features.• Testing UI with Mocha and Selenium Web Driver.	
Werkstudent Machine Learning Engineer, <u>HHLA – HPC</u>	Sep 2019 – Nov 2019
<ul style="list-style-type: none">• Developed pre-processing libraries for large unstructured data directly shipped from the terminal.• Analysis of million data records, developed ML models and predicted the dwell times to increase the target of increasing container capacity in HHLA CTB.	
React Native Developer, <u>CryptoZilla.io</u>	Feb 2018 – Feb 2019
<ul style="list-style-type: none">• Developed centralized and joint API system for the mobile application.• Researched and developed tools to formulate data acquisition from more than 190 cryptocurrency exchanges.• Devised various complex but optimized algorithms for computation and logic.	
Front End Engineer, <u>MedB Diagnostics</u>	May 2016 – Aug 2018
<ul style="list-style-type: none">• Implemented various E-commerce modules and features including Shipping, payment, front and back office modules.• Developed modern UI from scratch and optimized landing pages for mobile and search engines.• Planned workflows, scenario analysis and code review of several in-house projects.	
Co-Founder, <u>Axisport Remote Lab</u>	Jul 2014 – Mar 2019
<ul style="list-style-type: none">• Served 200+ clients personally with variety of design and development services.• Build next-generation web and mobile applications with a focus on the client (front-end) side.• Oversaw client meetings, remote team hiring and development.	

THE BIG 3 PROJECTS

Real Time Hand Detection in a Therapeutic Research Scenario utilizing Transfer learning

- Data coll., research and creating ML models to solve the problem of detecting hands on multiple directed scenario videos involving therapeutic activities, diff. light conditions and varied backgrounds.

Real Time Object Detection & Prediction using Machine Learning

- Build next generation RTS rare coin detector utilizing ML features to detect, train and optimize scanner algorithm.

Cryptocurrency Trading Mobile Application (React Native)

- Develop all-in-one crypto management tool supporting 4 crypto wallets, 190 exchanges and tens of other features.

TECHNICAL SKILLS & KNOWLEDGE

Machine Learning, Data Analysis & Computer Vision Frameworks

Computer Vision, CUDA, Data mining, MATLAB, R, Neural networks, Deep learning, Natural Language processing, Information Retrieval, C++, OpenCV, Python, TensorFlow, Keras, Pandas, NumPy, SQL, Seaborn, Matplotlib, Jupyter Notebooks, Clarifai, MS Office, MS Excel, Google Analytics

Web / Mobile Application Frameworks

Java, Spring boot, Docker, Maven, HTML5, CSS3, Javascript ES5/6, React, Vue.js, Node.js, React Native, Android, Angular JS, Bootstrap, JSON, XML, SQL, jQuery, PHP, Jenkins, Progressive Web Applications, Automated Testing, Rest APIs, SOAP, Selenium, Mocha, Cross Browser Testing, Compatibility and Accessibility, Performance Optimization, Linux, BEM, LESS and SASS

Cloud / Backend

MySQL, NoSQL, GraphQL, MongoDB, AWS, Google Cloud Engine, Firebase

Others

Adobe Suite (3 years exp): Adobe Photoshop, Adobe Illustrator, Adobe XD, CorelDraw, Premiere Pro, InDesign, After Effects, UI design, Advertisement design, Branding, Video editing, Storyboarding, User experience, SEO, Content writing (3 years) etc.

PUBLICATIONS

- [Research Report: Situation Aware Assistance](#), private/unlisted, May 2019
- [Research Report: Augmented Reality in Altered Gravity](#), private/unlisted, April 2019

INTERESTS

- Passionate about machine learning part. deep learning.
- Occasional personal blogging.
- In love with MOOCs.