EDUCATION		
MS	Masters in Computer Science Universität Rostock, Rostock, Germany	2019 – 2021
BS	Bachelors in Computer Science Bahria University, Karachi, Pakistan	2014 – 2018
MPP	Microsoft Professional Program – Front End Development $Microsoft - EdX$	2017 - 2018
DAFM	Diploma in Advertising & Film Making ARENA Multimedia	2016 - 2017
Work	Experience	
Maste:	r Thesis, <u>Fraunhofer IGD</u> Thesis: Bezier line object detection (detection of microscopic wood rings and transmission power-lines)	Feb 2021 – Jul 2021
Reseau •	Prch Assistant, <u>Fraunhofer IGD</u> Modeling feature visualization techniques to trace features learned in bat species recognition. Built the interface and APIs for the TensorRT inference engine from scratch using Vue.js.	Feb 2020 – Feb 2021
Reseai	rch Assistant, <u>Max Planck Institute - DEMOGR</u> Data collection (web scraping) for multiple projects totaling 10,000+ searches	Jul 2020 – Mar 2021
Werks •	tudent Software Engineer, <u>HHLA – HPC</u> Built and automated the pre-processing pipeline for the incoming raw dataset increasing the efficiency of pre-processing by decreasing time consumption by 98.33%. Devised ML models from scratch and improved the accuracy of container dwell time classification problem to 98%.	Sep 2019 – Nov 2019
React • •	Native Developer, <u>CrvptoZilla.io</u> Developed a 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.	Feb 2018 – Feb 2019
	End Engineer, <u>MedB Diagnostics</u> 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.	May 2016 – Aug 2018
Freela • •	completed 200+ small and big projects by myself. Co-founded 3 micro-startups (Axisport Lab, Graphimator & Stitch-In) Skill stack ranges from web dev, app dev, designer, animator, content writing, and SEO.	Jul 2014 – Mar 2019

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.

Real Time Object Detection & Prediction using Machine Learning

• Build the next generation RTS rare coin detector utilizing ML features to detect, train and optimize scanner algorithms.

Cryptocurrency Trading Mobile Application (React Native)

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

Machine Learning, Data Analysis & Computer Vision Frameworks

Deep learning, Neural networks, Computer Vision, C++, OpenCV, Python, Scikit-Learn, TensorFlow, Keras, Pandas, NumPy, SQL, Seaborn, Matplotlib, Jupyter Notebooks, Clarifai, MS Office, MS Excel, Google Analytics

Web / Mobile Application Frameworks

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

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 Affects, 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