MS	Masters in Computer Science	2019 – 2021
.10	Universität Rostock, Rostock, Germany	2010 2021
BS	Bachelors in Computer Science	2014 – 2018
	Bahria University, Karachi, Pakistan	
1PP	Microsoft Professional Program – Front End Development	2017 - 2018
	Microsoft - EdX	
AFM	I Diploma in Advertising & Film Making	2016 - 2017
	ARENA Multimedia	
N ork	Experience	
Лаstе	r Thesis, <u>Fraunhofer IGD</u>	Feb 2021 – Jul 2021
•	Topic: Bezier line object detection	100 2021 341 2021
Resea	rch Assistant, <u>Fraunhofer IGD</u>	Feb 2020 – Feb 2021
•	Modelling feature visualization techniques for bat species recognition.	
•	Built the interface for the TensorRT inference engine from scratch using Vue.js. Built the test server REST APIs from scratch using Node JS (Express API).	
Qesean	rch Assistant, <u>Max Planck Institute - DEMOGR</u>	Jul 2020 – Mar 2021
•	Data collection (web scraping) for multiple projects totaling 10,000+ searches	Jul 2020 With 2021
Verks	tudent Software Engineer, <u>HHLA – HPC</u>	Sep 2019 – Nov 2019
•	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.	
Danet	Native Developer, <u>CryptoZilla.io</u>	Feb 2018 – Feb 2019
•	Developed a centralized and joint API system for the mobile application.	160 2010 - 160 2013
•	Researched and developed tools to formulate data acquisition from more than 190	
•	cryptocurrency exchanges. Devised various complex but optimized algorithms for computation and logic.	
ront	End Engineer, <u>MedB Diagnostics</u>	May 2016 – Aug 2018
•	Implemented various E-commerce modules and features including Shipping, payment,	y o
	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.	
o-Fo	under, <u>Axisport Remote Lab</u>	Jul 2014 – Mar 2019
JU I U	Served 200+ clients personally with a variety of design and development services.	
•	Build next-generation web and mobile applications with a focus on the client (front-end) side.	

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