EDUCATION			
MS	Masters in Computer Science	2019 – 2021	
	Universität Rostock, Rostock, Germany		
BS	Bachelors in Computer Science	2014 – 2018	
	Bahria University, Karachi, Pakistan	2011 2010	
MDD	Minus & Durfasianal Duranana, Frank Fad Davidson and	2017 2019	
MPP	Microsoft Professional Program – Front End Development  Microsoft – EdX	2017 - 2018	
	Interestiff Eur		
DAFN	I Diploma in Advertising & Film Making	2016 - 2017	
	ARENA Multimedia		
Work	Experience		
Maste	r Thesis, <u>Fraunhofer IGD</u>	Feb 2021 – Jul 2021	
•	Topic: Bezier line object detection	100 2021 341 2021	
n		E 1 2020 E 1 2021	
Kesea •	rch Assistant @ Fraunhofer IGD  Modelling feature visualization techniques for bat species recognition.	Feb 2020 – Feb 2021	
•	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).		
Resear	rch Assistant, <u>Max Planck Institute - DEMOGR</u>	Jul 2020 – Mar 2021	
	Data collection (web scraping) for multiple projects totaling 10,000+ searches	Vui 2020 1141 2021	
Werks	student Software Engineer, <u>HHLA – HPC</u>	Sep 2019 – Nov 2019	
•	Developed pre-processing libraries for large unstructured data directly shipped from the terminal.	Sep 2013 1.0. 2013	
•	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	
•	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.		
Front	End Engineer, <u>MedB Diagnostics</u>	May 2016 – Aug 2018	
•	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-Fo	under, <u>Axisport Remote Lab</u>	Jul 2014 – Mar 2019	
•	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.		
•	Oversaw client meetings, remote team hiring and development.		
•	Oversaw chefit meetings, remote team niring 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.

## 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.

## <u>Cryptocurrency Trading Mobile Application (React Native)</u>

• 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