

# INAYAT ALI MUGHAL

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## OBJECTIVE

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I'm a Full Stack Developer with 3 years of professional experience in Software Development. I am a highly motivated Full Stack Developer with a proven track record of delivering top-notch software solutions. I am eager to explore potential opportunities or collaborate with others on innovative projects.

## EDUCATION

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**Master of Science / Cyber Security**, Brandenburg Technical University Cottbus, Germany Expected 2026

**Bachelor of Engineering / Software Engineering**, Mehran University of Engineering and Technology, Jamshoro, Pakistan 2018 - 2022

## SKILLS

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**Technical Skills** TypeScript, React Query, JavaScript, Next.js, Struts, Hibernate, Microservices, Java, Linux, Spring Boot, Spring, Firebase, SQL, Node.js, Express.js, Nest.js, MongoDB, React, AWS, Microsoft Azure, Docker, CI/CD pipelines, FastAPI, Python, CSS, Git, GraphQL Server, GraphQL Client, Jira, GitHub, Auth0, Terraform, Flutter, Jest,

## EXPERIENCE

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**Software Engineer** Nov 2024 - Feb 2025  
Memodio GmbH *Potsdam, Germany*

- Designed and implemented a secure authentication system with controller and middleware validation, significantly enhancing user data security and role-based access.
- Integrated biometric login and device-level encryption, resolving critical login issues and boosting mobile app reliability and compliance with data protection standards.
- Engineered an adaptive test difficulty algorithm using performance-based data analysis, improving the accuracy and personalization of cognitive assessments.
- Developed automated account lifecycle workflows, including dormant account detection and auto-deactivation, reducing system clutter and security risks.

**Full Stack Developer** Feb 2024 - Nov 2024  
Kaayoo GmbH *Berlin, Germany*

- Spearheaded the end-to-end data migration from HubSpot to internal CRM, ensuring 100% data integrity and enabling streamlined access to client profiles across teams.
- Integrated a real-time AI-powered chatbot within the CRM and Microsoft Teams, enhancing internal communication and improving customer response time. Deployed dynamic CRM features tailored to business workflows, increasing CRM usability and user satisfaction.
- Collaborated on the development and optimization of an Electric Vehicle CRM module, contributing to the launch of a customer-friendly EV platform.

**Full Stack Software Engineer** Dec 2022 - Aug 2023  
Avialdo Solutions *Karachi, Pakistan*

- Refactored login and registration flows by migrating from Spring to Spring Boot, improving performance and scalability.

- Integrated Mastercard and Visa validation in the payment system, enabling secure and verified transactions.
- Developed and deployed dynamic CRM features tailored to business workflows, increasing CRM usability and user satisfaction.
- Built invoice generation services with real-time billing, streamlining financial operations.
- Migrated frontend architecture from React.js to Next.js 13 (Beta) with TypeScript, boosting rendering speed and developer efficiency.
- Designed and deployed scalable infrastructure on cloud services, improving system uptime and responsiveness.
- Reorganized and optimized cloud architecture to reduce operational costs by 20%.

## PROJECTS

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### Anomaly Detection in 5G Generation.

- Designed and implemented traditional machine learning and classification models (e.g., SVM, Autoencoders, GAN) for detecting anomalies in 5G network traffic.
- Applied Federated Learning techniques to enhance model training without compromising data privacy.
- Extracted relevant features from PCAP (packet capture) files to preprocess and prepare network traffic data.
- Used Generative Adversarial Networks (GANs) to create synthetic datasets for training and evaluation purposes.
- Evaluated model performance on multiple datasets to ensure robustness and generalization.
- Gained hands-on experience with cybersecurity, ML pipelines, and traffic analysis in modern 5G environments.

## Achievements

- Started an educational podcast series in 2022. [Listen Here](#)
- Winner of Bootcamp Competition 2021.
- Winner of Project Expo 2019 among 20 participants.