

INAYAT ALI MUGHAL

+49 17643427173 ◊ Berlin, Germany

ainayat865@gmail.com ◊ [linkedin.com/in/inayat-ali-mughal](https://www.linkedin.com/in/inayat-ali-mughal) ◊ [github/Inayat61](https://github.com/Inayat61)

OBJECTIVE

Growth-oriented Software Engineer with 3+ years of experience building scalable web applications, RESTful APIs, and microservices architectures. Passionate about TypeScript, React, and modern frontend development. Eager to take full ownership of code from architecture to production, collaborate in agile cross-functional teams, and contribute to the organization growth.

EDUCATION

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

Programming Languages	TypeScript, JavaScript, Java, Kotlin, Python, SQL, Go (familiar)
Frontend Frameworks	React, Next.js, Material UI, Micro-Frontends
Backend Frameworks	NestJS, Express.js, Spring Boot, FastAPI
Architecture	Microservices, RESTful API Design, GraphQL (Client & Server)
Cloud / DevOps	AWS (EC2, S3, Lambda), Docker, Terraform, CI/CD Pipelines, Git, GitHub
Databases	PostgreSQL, MongoDB, Firebase, Redshift
Testing / Quality	Test-Driven Development (TDD), Unit Testing, Integration Testing, Code Reviews
Tools / Methodologies	Agile (Scrum), Jira, Linux, Microsoft 365

EXPERIENCE

Software Engineer Nov 2025 – Present
PciNow GmbH *Remote, Germany*

- Led end-to-end frontend and backend development from concept to production using React, TypeScript, NestJS, Next.js, and MongoDB within a microservices architecture.
- Designed and implemented RESTful APIs with robust security standards, taking full ownership of code from initial architecture and testing to deployment and maintenance.
- Continuously evaluated emerging frontend technologies including micro-frontend patterns and component libraries (Material UI) to improve UX and developer experience.
- Collaborated in an agile, cross-functional team environment, contributing to sprint planning, code reviews, and iterative releases.

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

- Developed secure backend services with authentication middleware and device encryption on AWS cloud infrastructure, ensuring data protection and system reliability.
- Implemented adaptive business logic and account lifecycle automation using TypeScript, enhancing system robustness and maintainability.
- Collaborated in cross-functional agile teams to deliver high-quality, tested code with a focus on clean architecture and modern API design.

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

- Architected and executed data migration with 100% accuracy; built custom CRM frontend modules using React and TypeScript with RESTful API integration.
- Integrated AI-powered services into CRM and Microsoft Teams, designing modern APIs and UI modules to optimize internal workflows and customer engagement.
- Contributed to scalable e-commerce and CRM solutions using microservices architecture on AWS, championing code quality through testing and code reviews.

Full Stack Software Engineer

Avialdo Solutions

Dec 2022 – Aug 2023

Karachi, Pakistan

- Migrated legacy backend from Spring to Spring Boot, improving performance, maintainability, and developer productivity within an agile development process.
- Built secure payment integration, billing services, and UI modules following test-driven development (TDD) practices with comprehensive unit and integration testing.
- Reorganized cloud infrastructure on AWS using Docker and Terraform, reducing operational costs by 20% and improving CI/CD pipeline efficiency.
- Actively participated in shaping an inclusive team environment, sharing knowledge with peers and collaborating across functions to deliver iterative releases.

PROJECTS

Anomaly Detection in 5G Networks

- Designed and implemented machine learning classification models (SVM, Autoencoders, GAN) for detecting anomalies in 5G network traffic.
- Applied Federated Learning techniques to enable distributed model training without compromising data privacy.
- Built data preprocessing pipelines to extract features from PCAP files and prepare network traffic datasets.
- Evaluated model performance across multiple datasets to ensure robustness and generalization.

Achievements

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