

# MUHAMMAD ZUKHRUF BASHIR

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SOFTWARE ENGINEER | FRONT-END DEVELOPER | FULL STACK ENGINEER

## Summary

Result-driven developer with proven success in data anonymization, real time communication, and scalable fintech solutions. Skilled in React, TypeScript, Redux NodeJS RabbitMQ, Python, and Tailwind, consistently delivering 30 to 40% performance enhancement while ensuring compliance with EU data privacy laws.

## Work Experience

**Web Developer**, Fraunhofer IDMT | DA3KMU, GEISST Sep 2024 – Present

Driving EU-compliant data anonymization, real time communication, and robust multi file analysis with C2PA.

- Led two data centric web projects DA3KMU(data anonymization under EU laws) and C2PA tool for manifest analysis.
- Enhanced user experience by 30%, implement real-time web sockets(JavaScript), and build a React based(TypeScript Redux Tailwind D3.JS) solution from scratch.
- Developed secure pipeline, cut response time by 37% via web workers, and integrated C2PA SDK to display manifest data for video, audio, PDF, other file types.
- Achieved 81% user satisfaction, insured full legal compliance, and delivered a scalable platform supporting 2000 daily files scans with minimal downtime.

**Junior Full-Stack Developer**, GeekyBugs.inc | JoinSwitch.co Nov 2022 – Jul 2023

Enhanced fintech solution, boosted conversions, improved performance and enhanced scalability with React, Redux, NodeJS, and RabbitMQ.

- Enhanced JoinSwitch.co Banking application UI/UX, driving a 27% increase in conversion rate.
- Streamline development by 41%, boost backend performance, and simplifying stateful logic in components.
- Implemented React and Redux(component-based), leveraged hooks to cut re-rendering by 32%, and integrated RabbitMQ on Node.js for secure, efficient processing.
- Raised API response speed by 29%, improved scalability by 33%, and achieved a 21% higher task completion rate in an agile team.

**Internship**, National Foods LTD Aug 2022 – Oct 2022

Built scalable, high-performance UIs with React, Redux and Tailwind for high-traffic web.

- Built responsive UIs for high traffic application with React, Redux, Tailwind, focusing on performance.
- Optimized JavaScript, leveraged Reacts virtual DOM, and developed reusable components using best practices.
- Enhanced responsiveness, minimized re-renders, and gained hands on experience in component driven architecture.

## Skills

Design Languages	HTML5, CSS3, Tailwind CSS
Programming Languages	JavaScript, TypeScript, C#, Python, Bash
Frameworks	NodeJS, NestJS, jQuery, React, Redux, Asp.Net
Database Management Systems	SQL Server, PostgreSQL, MongoDB
ORM (Object-Relational Mapping) Libraries	Prisma, TypeORM
Container Orchestration	Docker
Architectural Pattern	MVC, SPA
Message and Queuing	RabbitMQ
Cloud Computing	AWS EC2 (Elastic Compute Cloud), Microsoft Azure
Project Management Tools	Jira, Redmine
Software Development Methodologies	Test-Driven Development, Agile, Scrum

## Education

**Master of Science in Research in Computer System Engineering**  
Technical University of Ilmenau, Apr 2023 – Present

**Bachelor's in Computer Science**  
DHA Suffa University, Aug 2018 – Jul 2022