

# Sahil Kukreja

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## Summary

Backend Software Engineer with experience building scalable REST APIs and microservices using Spring Boot and Node.js. Strong background in database-driven systems, CI/CD pipelines, Docker, and Kubernetes, with additional experience in Flutter and cloud-deployed applications.

## Education

<b>NU-FAST, Karachi Pakistan</b> , BS in Computer Science	Sept 2021 – June 2025
• GPA: 3.29 / 4.0	

- Relevant coursework: Algorithms, Data Structures, Databases, Software Engineering, Machine Learning

## Experience

<b>Software Engineer</b> , BenchMatrix, Karachi, Pakistan – Hybrid	May 2025 – Present
• Developed and integrated Spring Boot REST APIs within a microservices architecture, supporting scalable and secure banking workflows.	
• Built and enhanced Flutter mobile applications for a FinTech platform serving Al Salam Bank (Bahrain), delivering production features including WCAD and Personal Finance modules.	
• Managed CI/CD pipelines and Kubernetes deployments for reliable production releases.	
• Worked with SQL Server and automated Excel report generation; provided production support.	
<b>Backend Development Intern</b> , Doaz, Yeoksam-ro, Gangnam-gu, Seoul-Remote	Nov 2024 – May 2025
• Developed REST APIs using Node.js and NestJS for a SaaS platform.	
• Managed PostgreSQL databases and containerized backend services with Docker.	
• Integrated AI document processing APIs and automated document conversions (PDF, DOC/DOCX, XML).	
• Implemented payment gateways (PayPal, Korean local) for SaaS transactions.	

## Projects

<b>Fabric Defect Detection</b>   FYP   React.js, FastAPI, MySQL, Python, CNN, YOLO	Oct 2024 – June 2025
• Trained YOLO, ResNet, EfficientNet, and Transformer models for defect detection, achieving 94% accuracy on 5k+ textile images.	
<b>FeedVisior</b>   Python, X API, NLTK, Streamlit, AWS	Feb 2024 – May 2024
• Developed and deployed a video analysis tool using Python and DeepFace, enabling real-time emotion detection by dividing video frames into subparts.	

## Technical Skills

**Programming Languages:** C++, C#, Python, JavaScript, SQL, Java

**Web & Frameworks:** React.js, Node.js, Nest.js, .NET, Express.js, Flutter, Spring Boot

**Databases:** MySQL, PostgreSQL, MongoDB, Microsoft SQL Server

**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, CI/CD, Git, GitHub, GitHub Actions

**Other:** RESTful APIs, GraphQL, Authentication & Authorization, JWT, Agile/Scrum, Jira

## Awards & Achievements

- Secured 7th position nationwide (out of 400+ teams) in IEEE Xtreme 16.0.
- Runner-up in Competitive Programming at Developer Day, demonstrating expertise in data structures and algorithms.
- Best Database Project (Fleck) for advanced relational schema design, query optimization, and role-based access control.
- Participated in ICPC, applied advanced problem-solving and teamwork skills in a competitive environment.