

# Abrar Ahmed

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## EDUCATION

**BSc Computer Science | Eötvös Loránd University** Sep 2021 – Jan 2025  
**Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Concurrent Programming, Software Engineering, Software Testing, Databases, Operating Systems, Cloud Computing and DevOps, Distributed Systems, Cybersecurity and Network Protocols

## EXPERIENCE

**Ericsson**  
**Student Software Developer** Aug 2023 – Oct 2024

- Developed backend applications using Java, adhering to best practices for performance and maintainability.
- Built microservices and RESTful APIs with Spring Boot, enabling modular and scalable architectures.
- Created interactive frontend experiences using JavaScript and Angular, enhancing usability and responsiveness.
- Developed and optimized cloud-based DevOps pipelines and infrastructure in collaboration with cloud architects.
- Automated cloud deployments using Jenkins, and Spinnaker CI/CD pipelines, ensuring speed and reliability.
- Streamlined DevOps workflows with Python and Bash scripting, improving operational efficiency.
- Utilized Docker and Kubernetes for containerization and orchestration, enhancing cloud scalability and efficiency.
- Monitored and optimized cloud performance using Prometheus and Grafana.

**Eötvös Loránd University**  
**Teaching Assistant** Feb 2025 – May 2025

- Supported students in Python, Operating Systems, and Algorithms & Data Structures, helping with concepts and debugging.
- Conducted tutorials, reviewed assignments, facilitated discussions, and consistently assisted instructors with course delivery.
- Collaborated with faculty to design lab exercises and practice problems tailored to course objectives and student needs.
- Provided one-on-one mentorship during office hours to reinforce learning outcomes and improve academic performance.

## PROJECTS

**FinovaBank | Tools: Java (Spring Boot), Node.js, Python, React (TypeScript), React Native, Docker/Kubernetes, Kafka**

- Digital banking suite for accounts, payments, loans, and cards with AI personalization and blockchain-backed ledger.
- Event-driven Spring Boot/Kotlin microservices with Node.js gateway and React / React Native UIs on Docker/Kubernetes.

**PayNext | Tools: Java (Spring Boot, Spring Cloud), React (TypeScript), React Native, RabbitMQ, Docker/Kubernetes**

- Multi-method, multi-currency payments platform with subscriptions, fraud detection, and PCI-DSS compliance.
- Spring Cloud microservices with Eureka, Gateway, Config, Redis, Kafka/RabbitMQ, and React on Docker/Kubernetes.

**Flowlet | Tools: Python, Flask, React, PostgreSQL, Kubernetes, Terraform**

- Cloud-agnostic, microservices-based embedded finance platform supporting digital wallets, payment processing, and card issuance.
- Built KYC/AML compliance, ledger management, and AI-driven fraud detection pipelines for real-time risk scoring.

**NexaFi | Tools: Python (FastAPI), Node.js (NestJS), Go, React, PostgreSQL, Kafka, Kubernetes, Terraform**

- AI-powered financial OS for SMBs unifying accounting, payments, and advisory in an event-driven microservices architecture.
- Integrated advanced ML workflows and distributed-ledger modules for seamless data integrity and automated decisioning.

**QuantumAlpha | Tools: Python, C++, PyTorch, TensorFlow, Apache Kafka, Docker, Kubernetes, React, TypeScript**

- AI-driven hedge-fund engine leveraging machine and reinforcement learning on multi-source market data for strategy backtesting.
- Orchestrated real-time trade execution and risk management services behind a scalable microservices dashboard.

## CERTIFICATIONS

SQL (Advanced) - HackerRank	Nov 13, 2024
Software Engineer - HackerRank	Nov 19, 2024
DevOps in Google Cloud – Google	Jan 09, 2025
Terraform in Google Cloud – Google	Jan 08, 2025
Kubernetes in Google Cloud – Google	Jan 10, 2025
AWS Well-Architected Proficient – AWS	Jan 02, 2025

## SKILLS

**Programming Languages:** Java, Python, C#, JavaScript, TypeScript **Agile Methodologies:** Jira, Confluence  
**Frameworks:** Spring Boot 3, JUnit 5, Mockito, Angular, React, .NET **Databases:** Oracle, MySQL, PostgreSQL  
**DevOps & Cloud Infrastructure:** AWS, GCP, IBM Cloud, Terraform, Ansible, Docker, Kubernetes, OpenShift, Grafana, Prometheus  
**CI/CD Pipelines:** Jenkins, GitHub Actions, Spinnaker **Scripting & Automation:** Python, Bash, Shell Scripting, Automation Tools  
**Testing:** Unit Testing, Integration Testing, Test-Driven Development **API Testing:** Postman **Version Control:** Git, GitHub, Gerrit