

# Rutuja Shukla

Senior Software Developer, Barclays

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 <https://github.com/Rutuja-Shukla>

 Portfolio-Link

## PROFESSIONAL SUMMARY

Senior Software Engineer with 3+ years of experience delivering enterprise-grade software in banking and financial systems. Strong background in backend engineering, API development, system integration, microservices, SQL, and Agile delivery. Experienced in UI development using Angular, and in building full-stack applications with Node.js following modern API standards and high-quality code delivery practices. Known for translating complex business requirements into scalable technical solutions, improving system performance, and collaborating with cross-functional engineering teams. Experienced in full-stack development, modern API standards, and high-quality code delivery.

## CORE TECHNICAL SKILLS

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

**Backend & Frameworks:** .NET Core, Microservices Architecture, REST APIs, Entity Framework

**Frontend:** Node.js, Angular, HTML, CSS, JavaScript

**Databases:** SQL Server, PostgreSQL

**Tools:** Swagger, Insomnia, Git, Jira, Azure DevOps, Postman

**Other:** Agile Development, Unit Testing, CI/CD, System Design, Requirement-to-Architecture Mapping

**Soft Skills:** Analytical Thinking, Communication, Problem Solving, Leadership

## PROFESSIONAL EXPERIENCE

### Barclays — Senior Business Analyst (Senior Software Developer)

April 2025 – Present | Pune, India

- Led end-to-end development and enhancement of internal risk, finance, and treasury applications, collaborating closely with engineering teams to design scalable backend modules.
- Converted complex functional requirements into detailed technical specifications, API contracts, data models, and integration workflows.
- Designed and supported microservices and API components used across risk and treasury platforms, ensuring performance, maintainability, and adherence to coding standards.
- Performed system analysis for large distributed systems, recommending architectural improvements involving caching, asynchronous messaging, and optimized SQL queries.
- Coordinated with QA, DevOps, and product teams to enable seamless deployments, perform UAT validations, and ensure compliance with banking standards.
- Participated in code reviews, sprint planning, and Agile ceremonies, ensuring consistent delivery of high-quality software artifacts.

### Barclays — Business Analyst (Software Developer)

August 2022 – March 2025 | Pune, India

- Collaborated with software engineers to create API specifications, authentication flows (OAuth, JWT), and data integration pipelines for risk and regulatory systems.
- Designed SQL queries, transformation logic, and backend workflows to support reporting and analytical modules.
- Interpreted business requirements into system diagrams, sequence flows, and interface design documents used directly by development teams.
- Worked closely with engineering to troubleshoot production defects, debug data flow issues, and propose technical fixes.
- Contributed to testing strategies, including functional testing, API validation, and regression coverage for new releases.
- Ensured solutions followed security, performance, and compliance guidelines required in enterprise banking software.

### Starling Solutions — Artificial Intelligence Intern

Feb 2021 – May 2021 | Mumbai, India

- Led the ML track during a 4-month internship, delivering a full AI solution using IBM Watson under mentorship from Starling Solutions.

## EDUCATION

### Bachelor of Technology (B.Tech) — Computer Science & Technology

2018–2022 | Mumbai, India

Usha Mittal Institute of Technology, SNDT University

## PROJECTS

- Sentiment Analysis :** Built an ML model that accurately classifies positive and negative reviews by applying NLP preprocessing and supervised learning techniques
- Stock Prediction :** Developed a forecasting model that predicts future stock values using regression algorithms and historical market data analysis.
- Clustering Geolocation Data :** Created an interactive geographic clustering system that reveals regional patterns using K-Means and Python-based visual analytics.
- Handwritten Digit Recognition :** Implemented a neural network solution that identifies handwritten digits with high accuracy using the MNIST dataset and deep learning techniques.