

# Sourav Modak

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Software specialist with over 4 years of experience in backend development and API integration, focused on high availability and scalable solutions. Adept at building secure, fault-tolerant microservices architectures with tools like Spring Cloud, AWS Cloud and Azure Cloud, and Docker. Skilled in leading agile teams, optimizing CI/CD pipelines, and integrating logging and monitoring solutions for real-time insights. Passionate about leveraging cloud technologies and best practices to deliver impactful, reliable software solutions.

## Skills

**JAVA Backend development and Microservices, REST API**, Spring Boot and J2EE Servlets, Core Java, React, NodeJs, Advance Java, Docker and Kubernetes, AWS Cloud, Azure cloud, EKS, AKS, Jenkins, splunk cloud, Hystrix, Kafka, Redis, GITLab, RTC, github, bitbucket, JIRA, Apple Appstore management, Google Playstore management, C, C++, python, Javascript, Data structures, algorithms, SQL & relational databases, Android app development, HTML, CSS, PHP.

## EXPERIENCE

### Software developer and Project Management

March 2025 – Present

Think Swift Toronto, Canada

- **Mobile App Development:** Currently leading the development of Balkan Date, a cross-platform dating app built on **Spring Boot**, **MySQL/PostgreSQL**, and **React Native**, deployed on **Azure Kubernetes Service (AKS)**.
- Engineered a secure, scalable backend from scratch—including a custom authentication system and **HLS-based content delivery** using **FFmpeg** for high-performance video/image streaming.
- **Cloud Infrastructure & DevOps:** Built a **full-service mesh** within **Azure Cloud**, integrating **Azure Container Registry (ACR)** and automated deployment pipelines via **GitLab**.
- **Designed the entire infrastructure for high availability**, scalability, and maintainability—enabling continuous integration, testing, and deployment across all services.
- **Designed and deployed GitLab CI/CD** pipelines using a self-hosted Nexus Repository Manager for Maven-based version control and efficient artifact management.
- Project Link: <https://balkan-date.com> or **Google Balkan date**.
- IT Department Setup & Leadership: **Founded and structured the IT department**, including teams for Quality Assurance, Testing, and DevOps.
- Established comprehensive **CI/CD workflows**, version control standards, and agile development practices—ensuring fast, secure, and reliable product delivery.
- Introduced and managed mobile release workflows on **Google Play Store and Apple App Store**, segregating testing into **Internal, Beta, and Production** tracks.
- **Compliance & Best Practices:** Implemented end-to-end protocols for security, compliance, and quality assurance—ensuring smooth submissions, version rollouts, and regulatory adherence for both mobile platforms.

### Specialist Programmer

August 2021 – August 2023

INFOSYS Bangalore (Bengaluru), India

- Engineered and optimized the Spectrum OTT platform for Charter Communications, focusing on high availability, scalability, and load handling using **Java 8**, **Java 17**, and **Spring Boot** and **microservices**.
- Architected authentication and authorization solutions using **Spring Security**, ensuring compliance with **OAuth2** and **JWT** for secure **token-based authentication**.
- Developed and managed a microservices-based architecture and Netflix **Hystrix** for fault tolerance.
- Utilized **JPA/Hibernate** for data persistence, optimizing database interaction with **PostgreSQL** and **Oracle databases**.
- Deployed containerized applications on **AWS EKS (Elastic Kubernetes Service)**, leveraging **Docker** and **Helm** for container orchestration and package management.
- Automated CI/CD pipelines through **GitLab**, **Jenkins**, integrating **SonarQube** for static code analysis and maintaining code quality.

- Integrated **logging** and monitoring solutions using **Splunk cloud** implementing log aggregation, monitoring, and alerts for real-time system insights.
- Leveraged **JIRA** for **agile project management**, tracking issues, and planning sprints, in alignment with **DevOps** practices.
- **Mentored and led a team of six developers**, conducting technical code reviews, and facilitated continuous learning through internal knowledge-sharing sessions.

## Software Engineer

July 2019 – August 2021

TEMENOS INDIA PVT Ltd, Bangalore (Bengaluru), India

- Contributed to the corporate lending team, enhancing and maintaining T24, Temenos' flagship **banking product**, ensuring compliance with financial regulations.
- Engineered modules for **syndicated loans, interest and charges**, and **retail banking** leveraging **Spring Boot** for **microservices** architecture.
- Developed **REST APIs** for seamless communication between **T24 backends and frontend applications**, ensuring technology agnosticism, made it more **modular** and less complicated and facilitating integration flexibility.
- Collaborated closely with UI teams to implement continuous integration of backend services via an **API Gateway**, maintaining loose coupling between front and backend systems.
- Utilized **Swagger** and proprietary frameworks built on Spring Boot to define and document **REST APIs**, enhancing developer collaboration and **API** usability.

## Certifications

Microsoft Technology Associate Certification on Networking Fundamentals.

June 2017

## Education

**Post Graduate Certificate in Information Technology Solutions**

Humber Polytechnic (Toronto)

September 2023 – April 2025

**87.8%**

**Bachelor of Technology in Computer Science and Engineering**

SRM University (Chennai)

June 2015 – May 2019

**84.03%**

**Class 12 in Science Stream**

Kendriya Vidyalaya No. 2 SVN (Visakhapatnam)

March 2014

**92.4%**

## Projects

### OTT Platform

May 2024 – Present

- Create an OTT platform with all App, Web and TV app modules as an independent project.
- Collaborated with other devops friends to deploy it as a part of their project
- <https://github.com/official-srv-modak/OTTServer>

### Cameroscopy App

December 2020 – Present

- Create and deployed a research app tool in playstore in collaboration with IACS Kolkata.
- Managing and maintaining the app to the present day with defect fix and enhancements.
- [https://play.google.com/store/apps/details?id=com.souravmodak.cameroscopy&hl=en\\_CA](https://play.google.com/store/apps/details?id=com.souravmodak.cameroscopy&hl=en_CA)

## Links

- <https://github.com/official-srv-modak>
- <https://github.com/srvmodak656>
- [https://play.google.com/store/apps/dev?id=8784185079574892236&hl=en\\_CA](https://play.google.com/store/apps/dev?id=8784185079574892236&hl=en_CA)