

Sailesh Ch

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EDUCATION

- **Indiana University - Bloomington** Bloomington, Indiana, United States.
Master of Science in Computational Data Science, GPA: 3.5
August 2021 – May 2023
Course Work: Software Engineering, Applied Machine Learning, Elements of Artificial Intelligence, Advanced Database Concepts, Data Mining, Statistics, Information Visualization, Applied Algorithms, Intelligent Systems, Management Access and Big Data.
- **SRM Institute of Science and Technology** Kattankulathur, Chennai, India.
Bachelor of Technology in Electronics and Communication Engineering
July 2015 – May 2019
Course Work: Network Protocols, Calculus, Discrete Mathematics, Advanced Calculus.

EXPERIENCE

- **Capgemini** Hyderabad, India.
Associate Consultant, Digital Banking. Senior Java Full Stack Developer.
January 2021 – August 2021
 - **Spearheaded API Development:** Designed and implemented 8 cutting-edge features for Mambu core banking solutions' integration with Fin-Tech partners and Cloud Technologies.
 - Designed and implemented microservices Java, Spring Boot, Spring Security, and Spring Data JPA.
 - Implemented RESTful web services based on RESTful APIs emphasizing scalability and fault tolerance.
 - Managed API publication, promotion, and scalability securely using AWS gateway, AWS EC2, Docker, AWS ECS.
 - Implemented robust exception handling mechanisms to accurately propagate error messages.
 - **Streamlined Onboarding Journey:** Delivered end-to-end Digital Banking Platform SAAS products around KYC that simplified and expedited the onboarding process by 80% for clients in the Core Banking, Payments, and Digital Banking space.
 - **Strengthened Restful Microservices:** Enhanced the security and efficiency of Restful APIs for different modules, reducing the error-tracing time by more than 70%.
 - Implemented security mechanisms like OAuth 2.0 and 2-way SSL to securely expose APIs, requiring access tokens for resources using Spring Security. Utilized implicit/API grant type for security.
 - Configured back-end microservices with Sleuth, Zipkin for tracing, and ELK for log aggregation and visualization.
 - Incorporated fail-safe and circuit breaker patterns in Spring Boot Microservices, utilizing Swagger-UI for Eureka server registration. Incorporated Spring Web flux for asynchronous API calls.
 - **Technology Adaption:** Spearheaded the integration of the latest software technologies such as Angular for Web Development and Ionic for mobile application development, optimizing efficiency by over 50% .
- **Capgemini** Hyderabad, India.
Senior Software Engineer, Banking and Diversified Financial. Senior Java Full Stack Developer.
July 2019 – December 2020
 - **Optimized API Workflow:** Designed and implemented a decoupled micro-service architecture that streamlined end-to-end service processes and integrated seamlessly with any legacy or new-age plug-and-play platforms like Temenos Transact, Mambu, and Cloud Technologies.
 - Service Oriented Architecture (SOA) was exposed through RESTful web services with loose coupling between layers using spring framework during development.
 - Leveraged Java 8's stream API for efficient bulk data operations on collections, incorporating Lambda expressions, Streams, Method reference, and collections features.
 - Implemented Kafka Producer and Kafka Consumer in Microservices to ensure real-time data flow.
 - **DevOps:** Established a CI/CD pipeline and implemented build tasks for running unit tests on Jenkins, while also managing a distinct build process utilizing Maven for building and packaging.
 - These components were smoothly integrated with Jenkins to enable the deployment of Dockerized applications.
 - **Innovative End-to-End Solution:** Collaborated with stakeholders to create an innovative application, reducing paperwork by 80% for investment advisors.
- **eAutomaton Cognitive Sciences PVT LTD, Thub @ IIIT-H** Hyderabad, India.
Project Trainee.
May 2018 – June 2018
 - **Prediction Model:** Cleaned and analyzed patient data, developed machine learning models predicting patient behavior, achieving 82% accuracy.

TECHNICAL SKILLS

- **Programming languages:** Java, Python, JavaScript, TypeScript.
- **Web Technologies:** HTML, CSS 3/4, AngularJS, ReactJS, Ionic, Angular 4/7/8/9, Json.
- **Web Frameworks:** Spring Boot, Spring MVC, Spring Core, Spring AOP, Spring Batch, Log4j, Spring Rest, Flask, Django.
- **Database:** SQL, PL/SQL, NoSQL, MongoDB, Cassandra, Elastic, MySQL, Oracle, PostgreSQL.
- **Devops Tools:** Linux, Docker, Git, Jenkins, Maven.
- **Cloud Platforms:** Amazon Web Services (AWS), Google Cloud Compute (GCP), Azure.
- **Data Science Tools:** Tabuleau, Data Analysis, NumPy, Pandas, Sk-learn, Deep Learning, PyTorch, Neural Networks.
- **Other Technologies:** Elk Stack, Apache Kafka, Apache Spark, Mambu, Restful-API, Junit, Mockito, SOA, RabbitMQ, Swagger, Postman, OAuth 2.0, Spring Cloud, Spring Batch, JDBC, Hibernate, Spring Security, Kibana, Micro Services, Jira.

CERTIFICATIONS

AWS Certified Developer-Associate, Oracle 1Z0-808 Java SE 8 Programmer 1, Mambu Solution Consultant 1.,

PROJECTS

- **Laborer Management System. (A Competition by AWS @ Capgemini, India):** Overhauled outdated Laborer Management system, creating a web portal streamlining hiring and boosting efficiency by 85%.
- **Home Credit Default Risk:** Designed ML pipelines to predict repayment capability, reducing screening time by 95%. Achieved 3rd place in the AWSome Global Builders Challenge.
- **Safe Travels - An travel planning Website:** Spearheaded Safe Travels, a travel planning website offering seamless user experience and itinerary generation, reducing planning time by 90%.
- The platform also provides maps and optimized suggestions from previous reviews, travel visualization, and planning effortlessly.
- **Jacob Barhak Analytics - Visualizing the Population Modeling Map :** The population modeling working group initiated a field mapping effort to aid researchers in discovering analogous work and potentially leveraging research from parallel domains.