

# Bhavya Shah

## Senior Software Engineer

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### PROFILE

I'm a Professional Software Engineer and have a good experience in Product Management. Highly skilled and motivated Software Engineer with expertise in product development, management and support. Invite challenging projects and high grasping power. Excellent background in project work as a Software Development and Application Support Engineer.

- ☐ Critical Thinking/ Debugging
- ☐ Product Development
- ☐ Primary programming Java, Python and SQL
- ☐ Collaborative, Flexible, and Adaptable

### EDUCATION

January 2017 – May 2018      **International Technological University**, Senior Software Engineer

**Mumbai University**, MBA in Finance and IT

### PROFESSIONAL EXPERIENCE

January 2023 – present      **CapitalOne**, Senior Software Engineer

Collaborated with and across Agile teams to design, develop, test, implement, and support technical solutions in full-stack development tools and technologies. This included leveraging AI technologies, specifically working with OpenAI's GPT-3 model for natural language processing tasks.

Utilized programming languages like JavaScript, Angular, Java, HTML/CSS, SQL, and Python, as well as Open Source RDBMS and NoSQL databases. Developed a system for translating natural language inquiries into SQL queries using GPT-3, which involved both prompt engineering and potential fine-tuning of the model.

Utilized Kubernetes and Docker for the runtime environment for the CI/CD system to build, deploy, test, and host the AI model alongside the application. This included ensuring the secure execution of SQL queries generated by the AI model.

Used a Microservice architecture, with Spring-Boot-based services interacting through a combination of REST and SpringBoot. This architecture also facilitated the integration of the AI model with existing systems, allowing for seamless interaction between the user interface, the AI model, and the database.

Worked with a variety of AWS tools and services to host and manage the application and the AI model, ensuring high availability and performance. This also involved thorough testing and iteration of the AI system to ensure its accuracy and reliability in generating SQL queries.

May 2022 –  
January 2023

**Epam Systems, Senior Software Engineer**

Working as a Senior Software Engineer where I am responsible for developing code in various languages including Java for Spring Boot Microservices and Python for data processing and automation tasks.

Implemented Spring Boot Microservices to process messages into the Kafka cluster setup. Utilized Python scripts for data cleaning and transformation prior to entry into the Kafka cluster.

Streamed applications using Kafka APIs and Kafka Streams APIs. Wrote Producer and Consumer API to publish and consume data from topics respectively using Python in addition to other languages.

Doing the peer reviews and code reviews, including Python code, ensuring adherence to best practices and maintaining high code quality.

Responsible for the completion of the stories, from planning and estimation to implementation, which includes writing efficient Python scripts for backend tasks.

Developed Restful APIs for the application using Python frameworks such as Django and Flask, boosting system integration and interactivity.

Worked on multi-threading logic in Python, utilizing its threading and multiprocessing modules to improve the performance of CPU-bound and I/O-bound tasks.

Leading the development of micro-services from scratch, including designing and implementing micro-services in Python, contributing to system scalability and maintainability.

Involved in some front-end development activities using Angular, Javascript, HTML, and CSS, while also maintaining and enhancing the backend with Python.

August 2020 –  
May 2022

**Senior Software Engineer, Guidewire Software**

Designing and developing Rest APIs to support API authorization

Responsible for developing Guidewire products and internal tooling solutions for product content and quality. Utilized Python to automate and streamline many processes, which improved product development efficiency.

Worked on Web Services using REST. Worked both on Service and Client Side.

Supporting customers across the globe using PolicyCenter, ClaimCenter, and BillingCenter Products.

Messaging to external systems, different integrations.

Soap web services, REST services, Spring and Spring Boot

Utilized Kubernetes and Docker for the runtime environment for the CI/CD system to build, test and deploy.

Developed Docker images and containers for the application by configuring Dockerfile, using Docker compose to manage images.

Worked on AWS services like EC2, S3, CloudWatch, Athena, Lambda, Dynamo DB, SNS, and SQS.

April 2019 – May 2020 **Blackhawk Networks**, Software Engineer

A leading prepaid and payments global company which utilizes proprietary technology to provide consumers with a wide selection of gift cards, prepaid telecom handsets, and airtime cards.

Responsibilities:

- Developed Java core system API'S using micro-services architecture and Restful service.
- Application enhancements and support
- Application bug fixes
- Collaborated with product development to define detailed software design specifications, use cases, and other UML collateral as well as, established delivery plans and
  - schedules.
- Integrated new services as add-on features to the existing business processing service
- Design and development of the service that digitizes the gift card as an electronic wallet (Java, Spring, AWS AWS Lambda, and Amazon API Gateway)
- Working experience on Bitbucket and GitLab.
- Analyze and resolve defects, and perform code maintenance to ensure code robustness and delivery quality
- Actively involved in software development life cycle, design and develop new feature and new module integration, analyze solution feasibility, estimate effort for new user stories
- Involved in Agile Scrum methodology, Agile meeting, Sprint and Release Planning meetings
- Worked on Web Services using REST. Worked both on Service and Client Side
- Demonstrated the application to end user during scrum meeting and end of the release

September 2018 –  
February 2019

**Autodesk, Software Engineer**

Worked on a Data Reconciliation Project. The project was about to reconcile the data between Source and Target and validate the data if it is really a mismatch. The complete architecture of the project is on AWS. Used various AWS services like: EC2, S3, Athena, CloudWatch, Fargate, Redshift.

Responsibilities:

- Involved in Agile Scrum methodology, Agile meeting, Sprint and Release Planning meetings
- Demonstrated the application to end user during scrum meeting and end of the release
- Some of my main accomplishments included Defined functionality for features by creating mock-ups and collaborating with the design team and front-end developers
- Worked in a Multithreaded environment and excessively used Java Threads, concurrency, and exception handling.
- Designed and Coded JEE components using Spring and Hibernate.
- Analyzed and implemented the Spring-MVC framework.
- Used XML-based transactional support of Spring Framework.
- Worked on Web Services using REST. Worked both on Service and Client Side
- Migrating existing applications into microservices architecture using Rest APIs, spring boot
- Implemented Hibernate and replaced JDBC code.
- Developed White box test cases using JUnit and Mockito framework
- Configured Log4j Mechanism for the complete project using XML files
- Designed and developed Applications based on Spring Framework, Spring Boot, Spring MVC, Spring Templates, Hibernate, Micro Services, AWS Web Services
- Designed a RESTful web service using REST API resulting in high reliability, and visibility of different responses. hands-on expertise in developing REST APIs supporting multiple versions

May 2018 – July 2018

**US Bank, Software Engineer**

Responsibilities:

- Involved in Agile Scrum methodology, Agile meeting, Sprint, and Release Planning meetings
- Worked in a Multithreaded environment and excessively used Java Threads, concurrency, and exception handling.
- Designed and Coded JEE components using Spring and Hibernate.
- Analyzed and implemented the Spring-MVC framework.
- Used XML-based transactional support of Spring Framework.
- Responsible for developing Spring Controllers, Service Components, and DAO using Hibernate framework
- Worked on Web Services using REST. Worked both on Service and Client Side

- Developed Spring Controllers, Service Components, DAOs, Web Services, and UI Integration for developing the presentation layer of the application.

## SKILLS

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java11 • java8 • Restful APIs • Microservices • AWS • Kafka • Docker • Kubernetes  
Python • JUnit • Mockito • Product Management • AI • ML • javascript • AngularJs  
Node.js • Project Management • API Design and Development  
Relational and Non relational Databases

## COURSES

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**Become an AI-first leader**, LinkedIn

**AI fundamentals for Non-Data Scientists**, Wharton Online