

Akanksha Pawar

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EXPERIENCE

Front-End Developer, TCS Client - Citibank

Oct 2024 – Present

- Contributed to multiple **micro frontend** applications, implementing new features, resolving integration issues, and ensuring seamless communication between independent modules
- Implemented event-driven communication between multiple modules by consuming event objects and dispatching dynamic responses for real-time synchronization
- Supported cross-functional teammates through knowledge sharing and code walkthroughs, enhancing collaboration and technical understanding within the project
- Developed and maintained user-facing features using **Angular**, ensuring seamless and responsive user experience
- Collaborated with backend developers to improve UI/UX consistency and streamline data flow, resulting in enhanced application usability
- Optimized application performance by identifying and resolving bottlenecks, reducing load times by **30%**
- Debugged critical UI rendering issues, ensuring consistent appearance and functionality across multiple browsers
- Participated in code reviews and Agile development to maintain high-quality coding standards and best practices

Full Stack Developer, Tata Consultancy Services

Dec 2019 – Dec 2021

- Assisted in developing a **Spring Boot** application streamlining business planning, resulting in a 20% reduction in planning time using **Agile methodologies** and following programming best practices
- Led migration from **SVN** to **Git**, enhancing version control and collaboration in a **microservices** environment
- Implemented **A/B testing** strategies to optimize user experience and enhance application features based on user feedback and data-driven insights
- Established robust **CI/CD** pipelines in **Jenkins**, including stages for build, test, and deployment, resulting in a significant reduction in manual intervention and a faster release cycle

Software Developer, Abbott

Jan 2023 - Jun 2023

- Developed a dedicated **microservice** to seamlessly integrate **15 CRUD APIs** with the **EasyRules** - opensource library, thereby transforming healthcare monitoring through proof-of-concept implementation
- Spearheaded the creation of Treatment Plan Database, strategically shaping the schema to optimize operational efficiency and ensure seamless access to critical information in a cross-functional environment
- Engineered sophisticated APIs optimizing MediSpan data access, resulting in a **20%** boost in data processing speed
- Imported extensive MediSpan data, conducting in-depth analysis to unveil relationships and connections across various tables for the formulary aspect of the application
- Led API testing initiatives, achieving over **85%** test coverage with **JUnit** for robust functionality utilizing **Jira** to detect and resolve critical software bugs, reducing post-release bug reports by **30%**

PROJECTS

CLOUDWEAVER (SPRINGBOOT, AWS (EC2, SES, S3, DYNAMODB, RDS), Boston (MA)

- Built a scalable **CloudFormation**-based Infrastructure as Code (IaC) template to seamlessly deploy **auto-scaling EC2** instances with load balancing, contributing to a substantial **30%** boost in system performance
- Utilized **Route 53** for service discovery and **DNS** mappings, implemented **SES** for user-verification emails, integrated **CloudWatch** for logging application metrics, **S3** for storage, and established alarms based on application exceptions decreasing deployment time by **60%**
- Achieved **CI/CD** to construct **AMIs**, initiate **AWS Lambda** functions, produce artifacts, and deploy web application through **GitHub Actions**

MEDICAL PLAN RESTFUL APPLICATION (SPRINGBOOT, REST API), Boston (MA)

- Developed **7 REST APIs** using Spring Boot with support for all **HTTP methods**, **ETag**, extending the queuing mechanism using RabbitMQ and indexing object data in **ElasticSearch**
- Implemented **JWT Token** authentication using the **RS256 algorithm** for secure data transmission and leverage **OAuth 2.0** for comprehensive access control and authorization

THE MENACE PROJECT- TIC-TAC-TOE (SPRINGBOOT, SLF4J, JUnit), Boston (MA)

- Trained a machine to play tic-tac-toe against human strategy by implementing **Reinforcement Learning** algorithm and improving efficiency to **96%** after training over **40000 games**
- Enacted **OOP principles** & leveraged various **Design Patterns**, **Exception Handling**, **Multithreading** & **SLF4j** logs to ensure efficient game development

EDUCATION

Master of Science, Computer Software Engineering Northeastern University	<i>Jan 2022 - May 2024</i>
Master of Technology, Information Technology Devi Ahilya Vishwavidhyalaya	<i>Jul 2014 - Dec 2018</i>

CERTIFICATION

ORACLE CERTIFIED ASSOCIATE, JAVA SE 8 PROGRAMMER (CODE: 1Z0-808)

SKILLS

Programming Languages: JavaScript, Java, C, C++, HTML, CSS/Sass, SQL, Python
Frameworks: AngularJS, React, Spring Boot, Node.js, Next.js, JSP, Hibernate, JUnit, JPA, Redux
Databases: MySQL, PostgreSQL, NoSQL, Elasticsearch, MongoDB, Redis
Technologies: Git, JSON, Maven, Jenkins, Data Structures, SDLC, Version Control, Design Patterns, OAuth 2.0
Cloud: AWS (EC2, IAM, VPC, S3, RDS, DynamoDB, CDN, CloudWatch, Lambda, SES, DNS, and Route 53)