

Akshay Reddy Narra

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🐙 github.com/Akshay-06

🌐 akshay-06.github.io/portfolio

Professional Summary

- 3 years of experience as a JAVA back-end developer in developing RESTful microservices, web services, enterprise applications, web applications and integrations using Spring Framework.
- Expertise with Microservice architecture, utilizing Spring Boot-based services that interact through a combination of REST and MQ, and leveraging AWS for building, testing, and deploying microservices.
- Extensive experience with Struts, Spring4 Framework technologies such as Spring MVC, Spring Boot, Spring DAO, Spring Web Service, Spring AOP and ORM frameworks like Hibernate and IBATIS.
- Skilled in writing application-level code to interact with APIs and REST web services using Spring Boot, JSON, and XML.
- Experienced in full-stack web development using Flask, JavaScript (including Vue.js, React.js, and jQuery), and RESTful API services with Java, Node.js, and various databases such as MySQL, PostgreSQL, and MongoDB, ensuring cross-browser compatibility and responsive web design.
- Experienced in NoSQL Databases like MongoDB, enhancing data management efficiency and RDBMS application programming for Oracle, MySQL, PostgreSQL, Azure SQL, Microsoft SQL server using Stored Procedures, Triggers, Views.
- Proficient in workflow automation using ServiceNow and IBM BPM, creating efficient and streamlined business processes for increased efficiency and productivity.
- Competent in utilizing various Amazon Web Services like EC2, S3, Lambda, Simple DB, RDS, Elastic Load Balancing, SQS, IAM, CloudWatch, EBS, CloudFront, and VPC.
- Good experience in log4J implementation to persist the data into log files and experience with Maven for the build and deployment of applications.
- Familiar with Agile methodologies, including Scrum and Kanban, actively participating in Agile meetings such as sprint planning, daily stand-ups, and retrospectives.
- Dynamic and dedicated team player with strong interpersonal and communication skills; capable of presenting high quality of work under pressure and fast paced environment.

Technical Skills

Languages: Java, Python, C, Typescript, Javascript and R programming

J2EE Technologies & Frameworks: Spring, Struts, MVC, Redux, Hibernate, Servlets, Java 8, JSP, JDBC, JPA, JSF

Web Development: HTML/CSS, Vue.js, JQuery, React, Node.js, Express.js, Hooks, Rest API's, JSON, Bootstrap and Flask

Databases: SQL, MySQL, PL/SQL, PostgreSQL, Microsoft SQL Server, Azure SQL, AWS RDS and MongoDB

Tools: Figma, ServiceNow, IBM BPM, Postman, Swagger, Splunk, Jenkins, Docker, Chrome Developer Tool, OpenShift.

Software Engineering: SDLC, Agile & Scrum, JIRA, Confluence

Version Control: Git, GitHub, GitLab, BitBucket and Sourcetree

Machine Learning: Classification, Regression, Decision Trees, SVM's, Clustering, NLP, Transformer Networks and PCA

Libraries: Tensorflow, PyTorch, SciPy, Keras, OpenCV, Scikit-learn, NLTK, Gensim, NetworkX, Seaborn and Matplotlib

Certifications: Certified System Administrator-ServiceNow, Problem Solving Advanced, Java and Python Certification

Experience

ADP

Dec 2020 – Dec 2022

Software Developer (Full time)

Hyderabad, India

- Contributed decisively to the development and deployment of ADP Celergo, a cloud-based payroll and HR solution tailored for multinational enterprises.
- Developed microservices using Java 8 and Spring Boot to build individual components of the application and implemented RESTful APIs for seamless integration with SAP, RPA, and AWS SQS systems, leveraging the Spring 4.x Framework.
- Extensively used Spring Core annotations for Spring Dependency Injection, Spring MVC for Rest API.
- Automated Celergo's manual processes using BPM tools, streamlining workflows and reducing processing time by 15%.
- Drove pivotal digital transformation initiatives, leveraging BPM and Spring microservices to enhance business processes.
- Adopted Swagger for API testing within Celergo, optimizing integration efforts with external teams. Involved in debugging the issues and finding the root cause and fixed the bugs using Splunk.
- Optimized MySQL databases, reducing response time by 33% for critical data operations through query optimization.
- Developed AWS cloud formation templates and setting up Auto scaling for EC2 instances and involved in the automated

provisioning of AWS cloud environment using Jenkins.

- Managed project deliverables across short-term sprints and long-term deployments using Agile methodologies with JIRA.
- Leveraged Bitbucket as source code repository for code collaboration and actively participated in code reviews.
- Recognized with an award for outstanding contributions, innovations, and dedication to delivering 2 high-quality software solutions.

SmartBridge

May 2019 – Apr 2020

Java Developer Intern

Hyderabad, India

- Designed and developed Microservice business components using Spring Boot RESTful API for handling and persisting of requests and Spring MVC for returning response to presentation tier.
- Developed code for obtaining bean references in Spring and used dependency injection and Inverse of Control to make the application reusable and maintainable.
- Used JPA/ Hibernate for mapping java classes with database and designed and developed DAO's for accessing the POJO's and updating the DB tables. Developed Session Beans and DAO classes for all Modules.
- Implemented data layer of SpringMVC by using JPA (Java persistent API) used Hibernate as ORM to operate queries on Microsoft SQL Server.
- Used Spring-JDBC Template for coding DB operations and developed SQL DML and DDL statements.
- Fixing various critical production issues in quick turnaround time and providing release support so that the fixes get deployed to production in timely manner.
- Utilized Git for version control, ensuring efficient collaboration and streamlined code management throughout the development process. Applied JIRA as the bug tracking system to track and maintain the history of bugs/issues on everyday basis.

Projects

Hokie For U | GitHub: <https://github.com/Akshay-06/hokie-for-u>

Aug 2023 – Nov 2023

- Developed "Hokie For U," a community platform connecting over 500 Virginia Tech students, using the MERN Stack.
- Implemented MVC architecture with React components as Views, Models and Controllers in NodeJS for developing API's.
- Developed single-page application (SPA) using the React.js JavaScript library, with the help of concepts and libraries like Redux, Axios, JSX, form validation, higher-order components (HOCs), and react-router.
- Leveraged ReactJS to bind data/models retrieved from databases through services provided in a controller to the view using scope and applied Router Guard for denying unauthorized access.
- Used Express to provide JWT based authentication, authorization and access-control features for the application.

Grad Administrative Portal | Figma: [GAP-CS](#)

Aug 2023 – Nov 2023

- Redesigned and introduced GAP-CS, benefiting 300+ administrators, faculty, and students at Virginia Tech's Department of Computer Science.
- Streamlined access to essential forms like force-add courses and TA applications, resulting in a 50% decrease in form submission time. Implemented personalized content organization via Single Sign-On (SSO) profiles, resulting in a 20% increase in user efficiency.
- Utilized ideation, sketching, and mental modeling for holistic design considerations, leading to a 30% improvement in usability. Employed storyboarding, wireframing, and prototyping for concept visualization and refinement.

BookIt | GitHub: <https://github.com/Akshay-06/BookIt>

May 2023 – Jul 2023

- Built "BookIt," an advanced online bookstore application using Java, Vue.js, and TypeScript. Orchestrated a dynamic, responsive, and secure platform that optimizes user engagement and transactional efficiency.
- Engineered a Vue.js and TypeScript frontend architecture, utilizing Vue Router for efficient client-side routing. Employed Vuex for state management, enabling seamless data flow and reactive UI updates.
- Implemented backend functionalities using Java Spring Boot, ensuring high-performance inventory management and order processing. Designed RESTful APIs for seamless communication between frontend and backend.
- Implemented OAuth 2.0 token-based authentication/authorization using Spring Security for session fixation, clickjacking, cross site request forgery. Mitigated security risks with CSRF protection, CORS configuration, and RBAC.

Education

Virginia Polytechnic Institute and State University

May 2024

Master's in Computer Science (GPA: 4.00 / 4.00)

Blacksburg, Virginia

- **Relevant Coursework:** Web Application Development, Software Design and Quality, Software Engineering, Database Management Systems, Usability Engineering, Advanced Machine Learning and Social Media Analytics