

BABITHA CHERUKURI

[in LinkedIn](#) | [+1 \(469\)-905-1756](#) | [✉ babithacherukuri1@gmail.com](mailto:babithacherukuri1@gmail.com) | Need Sponsorship

Skills

- Java | Spring Framework | Spring Boot | AWS | Microservices | Docker | Kubernetes | RESTful APIs | Hibernate | JPA | Groovy | Python | HTML | CSS | JavaScript | React.js | Node.js | Angular | Git | Jenkins | Terraform | SQL | NoSQL (MongoDB, DynamoDB) | Apache Kafka | AWS Kinesis | AWS Lambda | AWS CloudFormation | DevOps | CI/CD | JUnit | Mockito | Rspec | Protractor
- Web Development | Enterprise Application Development | Object-Oriented Programming | Design Patterns | Database Development | RESTful API Development | Frontend Development | Backend Development | Microservices Architecture | Distributed Systems | Cloud Computing | Agile | Scrum
- Distributed Systems | Frontend | Backend | Full-Stack

Experience

Software Engineer (Contract)	Walmart	11/2023 - Present
<ul style="list-style-type: none">• Gained extensive experience developing e-commerce services for product management and order-processing in microservice-oriented architecture.• Developed and maintained the software responsible for packout and shipping workflows in the Fulfillment Management Service.• Expanded Warehouse management systems by developing new features including real-time data updates to incoming order requests• Focused on full-stack development using Spring Boot for the backend services, along with React.js for the user interface.• Leveraged Spring Boot to build RESTful web services and Redux for application state management.• Integrated with payment gateway APIs (e.g., PayPal, Stripe) to handle payment processing.• Developed and maintained software responsible for shipping workflows in fulfillment management service utilizing behaviour trees.• Collaborated with cross-functional teams to cultivate best coding practices writing custom SQL queries for Database optimization.• Created high-performance back-end applications by writing reusable, testable and efficient code using NodeJS and connecting applications to the web services.• Deployed Spring Boot based microservices in Docker container on Amazon EC2, refactoring the architecture with Spring Cloud and a factory pattern for multiple integrators• Developed Microservices using Spring Boot, Spring Data with JPA and implemented security using Oauth2, Spring Security and deployed on to Kubernetes and integrated Microservice with Kafka MQ• Developed Microservice to provide Restful API utilizing Spring Boot with various data persistence frameworks such as Spring data JPA.• Implemented an API Gateway with Spring Cloud for authentication, JWT tokens, and request filtering• Employed Hibernate 4.0 ORM framework integrated with Spring Hibernate template for database operations.• Generated Swagger Documentation and monitored API metrics with Spring Boot Actuator.• Implemented AWS solutions using EC2, EBS, ELB, Auto Scaling, and CloudFormation, including the creation of CloudFormation stacks and AWS Lambda functions.• Developed APIs with AWS Lambda for server management and integrated AWS services as event sources.• Worked with Docker Containers, Linux Containers, and AMIs for Docker image creation and Kubernetes deployment.• Deployed builds using Jenkins across development, staging, and production instances, maintaining code integrity through GIT.• Wrote Junit and Mockito test cases for unit testing.• Used JIRA tool for tracking new requirements, enhancements, bugs, and Git for version control.• Actively participated in the daily scrum meetings and bi-weekly retro meetings for knowledge sharing.		
Software Developer	Ordusion Technologies	06/2023 - 11/2023
<ul style="list-style-type: none">• Led Developed and maintained RESTful microservices using Spring Boot, Spring Cloud, and Eureka using tools like Maven and Git.• Migrated applications from legacy to microservices architecture using Spring Boot.• Developed interactive and dynamic Web UI using NodeJS, ReactJS, HTML5, CSS3 and Bootstrap.• Utilized ReactJS and NodeJS (NPM) for creating views and routing with Redux for proper URL management in web applications. Developed user interface by using the ReactJS, Flux for SPA development.• Implemented RESTful services (Spring Boot) automating documentation with Swagger.• Installed, built, and deployed applications on Cloud Foundry and AWS, with a focus on high availability and fault tolerance.• Designed and configured AWS infrastructure, including EC2 and S3, for multiple applications, ensuring auto-scaling.• Managed and expanded AWS (Cloud Services) infrastructure, specializing in database setup and maintenance on AWS EC2, worked extensively with Amazon S3, including bucket creation and file uploads.• Leveraged Docker containers for enhanced collaboration and innovation across the hybrid cloud.• Deployed and scaled containerized applications using Kubernetes Linux containers.• Implemented a backend MongoDB database, fetching JSON contracts through HTTP services and managing unstructured data with the Mongoose Connector.• Conducted database design, normalization, and wrote SQL queries.• Worked on debugging the system and Test-Driven Development using JUnit for supporting the applications.• Engaged in multiple stages of the SDLC (Software Development Life Cycle), actively contributed to daily scrum meetings, sprint reviews, and architectural discussions, and showcased project progress through sprint-end demonstrations.		
Java Full Stack Developer (Client: Constant Contact)	Infosys	Richadson, TX, USA
<ul style="list-style-type: none">• Led Developed and maintained RESTful microservices using Spring Boot, Spring Cloud, and Eureka.		
		08/2022 - 04/2023

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- Integrated with payment gateway APIs (e.g., PayPal, Stripe) to handle payment processing.
- Developed account management APIs with user registration, authentication, and profile management features.
- Implemented secure authentication mechanisms and user roles using Spring Security and Hibernate.
- Developed and integrated an AWS Lambda to poll the Logs from Okta and inject them into AWS CloudWatch.
- Created AWS CloudWatch Metrics and Event Alarms for the Raw Json data using the AWS Cloud-formation
- Integrated the Log Metrics coming from the AWS cloudwatch and shown in Grafana Dashboards using cloud formation for all Environments.
- Used terraform to Create OKTA Resources like okta_app_oauth (Creating an OIDC Application), groups, policies, and Admin users.
- Developed and Migrated the Build and Deploy Process from IPM jobs into Jenkin Jobs and developed CI/CD Pipeline for all the NON-Prod and Prod Environments using Devops Tools such as Ansible, Docker, and Groovy Scripts.
- Developed and maintained APIs using Spring Boot, Spring Security, OAuth 2.0 (Okta Authorization), and Hibernate.
- Created trading APIs, including endpoints for retrieving products, placing orders, and managing inventory using Java and Spring Boot.
- Integrated with payment gateway APIs (e.g., PayPal, Stripe) to handle payment processing and implemented endpoints for initiating payments and managing transactions securely.
- Developed account management APIs with user registration, authentication, and profile management features, implementing secure authentication mechanisms and user roles using Spring Security and Hibernate.
- Designed shopping cart APIs for managing user carts, including functionality for item management, pricing calculations, and inventory checks using Java, Spring Boot, and Hibernate.
- Implemented order processing APIs, including endpoints for order management, fulfillment, and integration with shipping provider APIs for tracking and generating shipping labels using Java and Spring Boot.
- Ensured secure authentication and authorization using Spring Security, OAuth 2.0, and Okta as the authorization server.
- Wrote unit tests using JUnit and performed integration testing to validate functionality, address bugs, and enhance performance.
- Conducted regular maintenance, including updating dependencies, addressing security vulnerabilities, and ensuring compatibility using tools like Maven and Git.

Computer Science Mentor(PartTime)

University of Massachusetts

Lowell, USA

10/2021 - 05/2022

- Actively participate in coding projects, collaborating with students on real-world applications.
- Provide guidance on software development best practices, code structure, and implementation strategies.
- Contribute to the actual coding process, demonstrating practical skills and fostering a collaborative coding environment.
- Provide one-on-one or group mentorship to students seeking assistance in computer science courses and projects.
- Review and provide constructive feedback on code submissions, helping students to improve their coding practices and adhere to best practices.

Software Development Engineer(Internship)

Sreeb Technologies Pvt Ltd

Hyderabad, TE, India

04/2021 - 07/2021

- Implemented enterprise applications for platforms using **Java, React**, AngularJS, AWS, and DynamoDB.
- Experienced in software development using Agile/SDLC methodology
- Expertise in front-end development using HTML5, CSS3, Bootstrap, Angular Material, JSP, and JavaScript libraries
- Experience with Angular versions 4 to 7, NPM package management, and RxJS Observable library
- Developed microservices using Spring v2, OAuth2 token-based authentication and authorization, and Swagger UI and Actuator for Spring Boot microservices
- Integrated various databases like Oracle, Postgres, and Cassandra
- Built RESTful APIs and utilized JPA persistence with Hibernate
- Used Java 8 features such as parallel streams and filters with lambda expressions
- Experience with Apache Kafka for messaging, Apache JMeter and Httpperf for performance testing, and Jenkins for automated builds
- Extensive knowledge of AWS services such as IAM, SQS, and infrastructure setup using Cloud Formation templates
- Developed HTML5, CSS3, Bootstrap, JavaScript, PHP, jQuery, and React.JS components that comply with accessibility and web browser standards
- Worked on commonly used Angular components and implemented automation and testing frameworks

Education

Bachelor of Science

University of Massachusetts , Lowell

Lowell, MA, USA

07/2018 - 09/2022

- Major Computer Science
 - Dean's List, Student leader.

Projects

- **WebDevelopment:** Designed and developed website for a company <https://unibiotech.co.in/>
- **Contributing to a Youth Coding Learning Platform:** I was actively involved in the development of a website aimed at assisting young aspiring coders in learning to code.[ddd - Gang of Crypto](#)

Mentorship

- **Computer Science Mentor:** Mentored and advised freshmen and sophomore computer science students on their learning roadmaps, helping them to develop a plan to achieve their academic goals.

Others

- **Student Leader:** Achieved the position of Student Leader at the University of Massachusetts Lowell, demonstrating leadership and dedication to the university community.

Publications

- Enhancing Human Activity Recognition with IMU-based Motion Analysis

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- Status: Patent Pending

Abstract: Investigated methods to improve Human Activity Recognition (HAR) systems using IMU-based motion analysis. Employed convolutional neural networks and denoising autoencoders techniques for classification precision enhancement and reducing dependency on human-engineered features.

- **Enhancing Time Series Forecasting with LSTM Networks and Multiple Attention Mechanisms**

- Conference/Journal: 14th ICCCNT 2023, IEEE

Abstract: Investigated the use of Long Short-Term Memory (LSTM) networks combined with multiple attention mechanisms for time series forecasting. Compared the proposed method with simpler models, demonstrating its effectiveness in capturing temporal dependencies.

- **Addressing Drawbacks of MART and Enhancing Predictive Performance**

- Conference/Journal: 14th ICCCNT 2023, IEEE

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Abstract: Explored the weaknesses of the Multiple Additive Regression Trees (MART) approach in boosting machine learning algorithms. Introduced Laplace Additive Regression Trees (LART) and DLART, addressing these drawbacks and improving predictive accuracy. Conducted experiments comparing the performance of LART, DLART, MART, and DART.