

Bhanusree Addagatla

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Software Engineer // Java Full Stack // Application Developer // Web Developer

Professional Experience:

Application Developer Intern (Apr 2023 – May 2024) | Full-time Application Developer (July 2024 – Present)
- CPC Technologies, Texas, USA

- ◆ Engineered microservices-based applications utilizing **Java Spring Boot** and **Hibernate**, leading to a 25% reduction in processing time and enhanced scalability.
- ◆ Orchestrated **CI/CD pipelines** using **Jenkins**, **Maven**, and **Gradle**, optimizing build and deployment processes and significantly reducing deployment time.
- ◆ Engineered microservices using **Go** and **Scala**, resulting in a 30% improvement in application scalability and developed API solutions with **GraphQL**, enabling efficient data retrieval times.
- ◆ Deployed solutions on **AWS** and **Azure**, leveraging **Docker** for containerization and **Kubernetes** for orchestration, enhancing cloud resource management and performance.
- ◆ Applied Agile methodologies including **Scrum** and **Kanban** to manage project sprints and enhance team productivity, while implementing **TypeScript** for improved code quality and maintainability; developed API management solutions with **Apigee** to enhance security and scalability, and automated acceptance testing with **Cucumber** to ensure robust API functionality.
- ◆ Fortified application security by integrating **OAuth 2.0** and **JWT** for authentication and authorization, decreasing security incidents by 19%.

Researcher at BREAKS, University of North Texas

Oct 2022 - Mar 2023

- ◆ At Building the Research Enterprise and Knowledge Series, a study has been conducted on optimizing **CI/CD pipelines** for microservices architectures, comparing automation tools like **Jenkins**, **GitLabCI**, **CircleCI**.
- ◆ Evaluated pipeline optimization techniques including parallel testing, containerization with **Docker**, and automated rollbacks to enhance deployment speed and reliability.
- ◆ Utilized **Bitbucket** for version control and implemented **CI/CD** pipelines with **Bamboo** to enhance automation and efficiency in microservices deployment.
- ◆ Explored **CARA** methodologies to optimize automated release processes, enhancing deployment strategies in microservices architectures.
- ◆ Investigated challenges associated with microservices deployment, including service dependencies, configuration management, and monitoring with tools like **JIRA** and **Prometheus**.

Software Developer Intern - Brainovision Solutions, India

Feb 2022 – July 2022

- ◆ Developed and maintained **RESTful APIs** using **Spring Boot** and integrated third-party APIs to extend application functionality, improving API response times by 42%.
- ◆ Enhanced **front-end** user experience through collaboration with front-end developers, leveraging technologies such as **HTML5**, **CSS3**, **Angular**, and **Bootstrap**, resulting in a 15% increase in user satisfaction.
- ◆ Built dynamic web applications using **React** and **React Native**, achieving a 25% increase in user engagement and overall satisfaction.
- ◆ Created server-side applications with **PHP** and **Ruby on Rails**, optimizing backend processes and contributing to an improvement in application speed.
- ◆ Leveraged **Node.js** for server-side development to build scalable and high-performance applications.
- ◆ Utilized **Postman** for API testing and **GitHub** for version control, ensuring robust and reliable software development practices.

Software Engineer/ Java Full Stack Intern - SadupSoft, India

Oct 2020 – Dec 2021

- ◆ Designed and developed dynamic web applications using **Angular** and **Spring Boot**, optimizing development efficiency and performance.
- ◆ Migrated legacy applications to modern frameworks, reducing maintenance costs by 23% and improving application robustness. Incorporated **jQuery** to simplify DOM manipulation and enhance user interactions.
- ◆ Managed databases with **DynamoDB**, **Cassandra**, and **Redis**, ensuring high availability and achieving a 99.9% uptime rate.
- ◆ Maintained applications using **.NET (C#)**, enhancing system robustness and reducing maintenance costs by 23%. Utilized **PostgreSQL** for advanced data management.

- ◆ Participated in **Agile** sprints, applying methodologies such as **Scrum** and **Pair Programming** to enhance team collaboration and project velocity by 25%.
- ◆ Implemented version control with **Git** and continuous integration practices, leveraging tools like **Visual Studio Code** and **IntelliJ IDEA** for streamlined development.

Web Developer Intern - CareerMatch.com, India

Aug 2019 – Sept 2020

- ◆ Assisted in the development of web applications with **Java** and **Angular**, focusing on optimizing page load times by 40% and overall application performance.
- ◆ Developed interactive web applications using **JavaScript**, enhancing client-side scripting and utilized **Bootstrap** to create visually appealing and mobile-first web designs.
- ◆ Leveraged **Swift** for **iOS development**, resulting in a 40% increase in app functionality and user satisfaction.
- ◆ Conducted performance optimizations using **C++** and **Java**, leading to a 30% reduction in legacy system errors and improved system reliability.
- ◆ Conducted unit testing and debugging using **JUnit** and **Mockito**, ensuring robust API functionality and minimizing regression bugs, resulting in a 30% reduction in bug counts and enhanced code quality.
- ◆ Integrated third-party services to extend application capabilities and utilized tools like **Eclipse** and **JIRA** for effective development and project management.

Educator - New Vision Junior College, Telangana, India

Mar 2017 - Oct 2017

- ◆ Conducted **Java** programming training for a group of 300 high school juniors and seniors, delivering comprehensive instruction in fundamental Object Oriented Programming concepts.

Skills:

- ◆ **Programming Languages:** Java (8, 11, 17), JavaScript (ES5, ES6), Golang(1.14 - 1.20), Python (3.x), TypeScript (3.x - 4.x), C++, PHP, Scala, .NET Core 3.1 - .NET 6 (C#), Swift, Ruby
- ◆ **Web Technologies:** HTML5, CSS3, Angular (2+), React (16.x-18.x), React Native, Node.js(10.x-16.x), Bootstrap(4.x-5.x), jQuery
- ◆ **Backend:** Spring Boot (2.x - 3.x), Ruby on Rails (5.x - 6.x), Hibernate (5.x - 6.x), RESTful APIs, Microservices, GraphQL
- ◆ **Cloud:** AWS (EC2, S3, Lambda), Azure, Docker (19.x - 20.x+), Kubernetes (1.18 - 1.25+), Serverless Architecture
- ◆ **DevOps:** Jenkins (2.x), Git (2.x), CI/CD, Bitbucket, Bamboo, CARA, Maven (3.x), Gradle (6.x+), Terraform
- ◆ **Database:** MySQL (5.7, 8.0), MongoDB (4.x - 5.x), PostgreSQL (11 - 14), SQL Server, DynamoDB, Redis(5.x - 6.x), Cassandra
- ◆ **Testing Frameworks:** JUnit (4.x - 5.x), Mockito (2.x - 3.x), Postman, Cucumber (4.x - 6.x), Selenium
- ◆ **Tools:** Visual Studio Code, Eclipse, IntelliJ IDEA, JIRA, GitHub, Docker Compose
- ◆ **Methodologies:** Agile, Scrum, Kanban, Test Driven Development (TDD), Pair Programming
- ◆ **Emerging Skills:** Machine Learning & Cybersecurity Fundamentals, Data Engineering, API Management (Apigee)

Key Projects:

Title: Real Time Chat Application

Jan 2023

Tech Stack: Java, WebSocket, Spring Boot, React, MongoDB

- ◆ Developed a real time chat application with **WebSocket**, reducing latency by 37%.
- ◆ Implemented **MongoDB** for handling NoSQL data storage needs, enabling flexible and scalable data management.
- ◆ Implemented user authentication and authorization using **OAuth 2.0**, improving security by 24%.
- ◆ Built dynamic and responsive user interfaces using **React**, increasing user engagement.

Title: E-commerce Web Application

Sept 2022

Tech Stack: Java, Spring Boot, Angular, MySQL, AWS

- ◆ Designed and developed an e commerce platform with real time inventory management, leading to a reduction in order processing time.
- ◆ Optimized **MySQL** database schemas to improve data retrieval performance.
- ◆ Integrated secure payment gateways, resulting in a 20% increase in customer trust and sales.
- ◆ Deployed the application on **AWS**, optimizing cloud resource usage and reducing hosting costs by 17%.

Publication:**Improved Disease Identification Algorithm, International Journal of Research,****April 2022**

- ◆ **Machine Learning** model, **Support Vector Machine** is used to predict lifestyle diseases, where analysis is done based on unhealthy diets, genetic disorders, smoking, etc. and dataset collection, data processing, testing, training and deployment is done
- ◆ Software involves **python** language in windows operating system, libraries like pandas, numpy, seaborn, matplotlib are used and Hardware involves Graphics Processing Unit and 4GB RAM. Accuracy rate is 89% to 100%.

Education:**University of North Texas, Denton, TX****Aug 2022 – May 2024**

Master of Science in Computer Science

Courses: Fundamentals of Artificial Intelligence, Software Engineering, Big Data, Data Science, Computer Algorithms, Usability Testing, Wireless Networks, Information Retrieval, Machine Learning, Operating Systems.

Malla Reddy Engineering College for Women, Hyderabad, India**Jun 2018 – May 2022**

Bachelor of Technology in Computer Science and Engineering

Courses - Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Organization, Computer Networks, Design and Analysis of Algorithms, Compiler Design, Cloud Computing, Linux Programming, Mobile Computing, Adhoc and Sensor Networks, Programming Essentials in Python