

Simadri Sai Bighnesh Prusty

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SUMMARY

Experienced Software Developer with **over 4 years** of expertise in **full-stack development, cloud technologies, and system optimizations**. Led a containerization initiative using **Kubernetes** and **Docker** that cut deployment times by 40%, while increasing user engagement by 25% on applications hosted in **AWS** and **Google Cloud Platform**. Managed a **cross-functional** team of six to reduce system downtime by 30%, aligning technical solutions with strategic objectives to achieve faster project delivery timelines. **Actively seeking Full-time opportunities** to leverage technical skills and contribute to further innovation in software development and cloud infrastructure

SKILLS

Programming Languages: Java, Python, C, C++, C#, R, SQL, Scala, PHP

Web Development: HTML5, CSS3, JavaScript, TypeScript, JSON, jQuery, ASP.NET, XML

Frameworks & Libraries: Spring Boot, ReactJS, AngularJS, Node.js, Express.js, .NET Framework, Maven, JUnit, RESTful Web Services,

Microservices, Hibernate, Selenium, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, JWT, OAuth 2.0

Databases: MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, DynamoDB, Cassandra

Cloud Technologies: AWS (S3, EC2, RDS, Lambda, IAM, Route 53, CloudWatch), Azure, Google Cloud Platform

DevOps Tools: CI/CD, Helm, Terraform, Ansible, Prometheus, SonarQube, Nagios, Postman

Software Development Methodologies: Jira, Slack, Trello, Asana, Agile (Scrum, Kanban), SDLC, TDD

Development Tools: VS Code, RStudio, Android Studio, IntelliJ IDEA, Eclipse, Unix/Linux environments

PROFESSIONAL EXPERIENCE

Full Stack Developer | Self Justice Inc., Tempe, AZ

July 2024 – Present

- Designed custom discussion forum plugin using **REST APIs and JWT** authentication, enabling real-time interactions and secure access, which **boosted user engagement by 40%** and sustained retention rates.
- Led the full-stack architecture of a tax application utilizing **ReactJS (front-end) and Django (back-end)**, resulting in a 30% performance boost and enhanced product visibility, increasing adoption within just 2 months.
- Engineered robust **WordPress** integration framework in **Java** to manage large-scale user databases, optimize back-end services, and enhance front-end responsiveness, improving response times and daily logins.
- Implemented real-time data synchronization with **Java WebSockets** to facilitate live updates, minimizing data latency by 60% and enhancing user experience.
- Refactored a legacy codebase by migrating from a monolithic structure to a **Java microservices architecture**, improving scalability by 50%, streamlining maintainability, and reducing deployment time by 35%.

Software Developer | Wayfair, Boston, MA

May 2023 – April 2024

- Deployed APIs using **Kubernetes** and **Docker** on **AWS**, leveraging **Java-based microservices** to enhance update efficiency, ensure system scalability during peak demand with 55%, and optimize operational performance by 60% with cloud-native technologies.
- Enhanced system performance and eliminated duplicate entries by developing **RESTful APIs and microservices** using **Spring Boot**, integrating **DynamoDB** and **PostgreSQL** to streamline data handling, for 45% boost in speed.
- Sculpted Sprintboard application using **ReactJS** and **Java (Spring Boot) for the back-end**, while leveraging **MongoDB for database** management, which operated task tracking and team performance, optimizing project management across 5 distinct project phases.
- Revamped the e-commerce platform using **ReactJS** and **Spring Boot**, streamlining back-end services, enhancing product visibility, and reducing production issues through targeted testing strategies, which improved overall customer experience and system reliability.

DevOps Engineer | Connectial Infosolutions Pvt Ltd, Ahmedabad, India

August 2020 – April 2022

- Architected data migration reporting system leveraging **Java, AWS Lambda, Kinesis, and CloudFormation**, reducing debugging time, accelerating issue resolution, and ensuring smooth data flow while minimizing operational overhead with Java-based solutions.
- Orchestrated comprehensive **CI/CD** pipeline with **Java integration**, achieving a 50% reduction in deployment time and ensuring system stability while cutting rollback rates by 30% through automated processes.
- Developed **Java-based S3 JSON** nested read functionality, enabling 33% of daily users to access critical data, optimizing platform performance and enhancing the reliability of internal data systems through **Java-driven enhancements**.
- Implemented **Team ID** reverse lookup system using **Spring Boot and DynamoDB**, resolving account verification issues for over 500 monthly users, improving operational efficiency while maintaining system simplicity and cost-effectiveness through development.
- Configured **JUnit** test cases with data mocking using **Postman** and **Mockito**, ensuring comprehensive unit test coverage and worked with **Docker** to enhance the Continuous Delivery (CD) framework, contributing to streamed releases.

EDUCATION

Arizona State University, Tempe, AZ

Master of Science in Information Technology

May 2024

GPA: 4.0

Sathyabama Institute of Science and Technology, Tamil Nadu, India

Bachelor of Science in Computer Science Engineering

May 2022

GPA: 3.7

PROJECTS

Forecasting Twitter Trends with Sentiment Analysis

Technologies: Python, Tweepy, NLTK, Pandas, LLM, Matplotlib

May 2024

- Extracted, cleaned, and preprocessed over 1 million tweets using **Tweepy**, achieving 92% accuracy in sentiment classification.
- Analyzed **NLTK** to build a sentiment analysis model with a focus on enhancing data quality for improved model learning.
- Applied cross-validation techniques to ensure model generalizability across diverse datasets, minimizing overfitting.

Inventory Management System

Technologies: Node.js, MongoDB, Docker, AWS

December 2023

- Developed and implemented the inventory management system, enhancing data accuracy by 90% and optimizing store operations.
- Integrated barcode scanner **API** to automate data entry, reducing manual task time and improving backend efficiency.
- Deployed the application on **AWS** infrastructure, achieving 99% uptime ensuring high reliability, scalability, and deployment processes.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Oracle Cloud Infrastructure 2024 Generative AI Professional certification
- Google Cloud Professional Cloud Architect