Gowtam Sai Sankar Gottam

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Summary

I am a Full Stack Developer with approximately 4 years of hands-on experience in software development within the corporate IT sector. My expertise lies in crafting robust and scalable solutions using Java and React technologies.

Education

Masters in Computer Science, Northern Arizona University — 01/2022 – 05/2023 | Flagstaff, United States

Bachelors in Computer Science, Institute of Aeronautical Engineering — 08/2016 – 05/2020 | Hyderabad, India

Skills

Development Languages
Java, Python, JavaScript, HTML & CSS, SASS (SCSS), PHP, Kotlin

Frameworks
NodeJS, Flask, FastAPI, ExpressJS, Spring boot, ReactJS, Angular JS, Redux, Bootstrap, Tailwind CSS, JQuery, JavaFX, Hibernate ORM, AWS, Jenkins, R Studio

Servers
Tomcat ,Oracle WebLogic Server

Data base
Mongodb, MySQL

Others
Bugzilla, Unit testing, CI/CD, agile, System testing, WooCommerce, WordPress, Shopify, Google Analytics Tag Manager, Davinci resolve, Paid search, Paid social, SEO/PPC Engineering Products and Services Digital marketing, Kafka, Maven, PCF, Power BI, Tableau, Swagger, YAML

Professional Experience

Java Developer, Pristen IT Systems Inc — 09/2023 – present | Nc, United States

- Working with **Agile methodologies** empowered quick responses to financial market changes. Iterative, incremental releases ensured adaptability, enhancing competitiveness.
- Leveraging the **Spring framework** for comprehensive back end development, including features like inversion of control, aspect-oriented programming, and modular components for building scalable and maintainable Java applications
- Implemented solutions within the financial domain in a **Microservice** architecture for seamless data integration and processing, leveraging **Java frameworks** such as **Spring** Integration and **Apache Camel**.
- Optimized database queries through **JDBC** for efficient data retrieval and storage.
- Applied **Java's** concurrent programming features to introduce **parallel processing**, enhancing system responsiveness and reducing processing times.
- Integrated caching mechanisms using F**rameworks** like **Guava** to improve the speed of frequently accessed F**inancial** data.
- Implemented a real-time transaction monitoring system using **WebSocket** and **React** for front end, enabling customers to receive immediate alerts for their banking activities.
- Ensured robust error handling with **Java's exception handling** features and implemented comprehensive logging using **Log4j**.
- Proficient in **YAML** for defining infrastructure configurations, such as **Docker** Compose files.
- Analyzed and optimized **MySQL** queries using aggregation pipelines, query hints. Ensuring data integrity and reliability. Its robust features facilitated seamless data storage, retrieval, and manipulation.

Software Engineer, NetElixir — 06/2020 – 11/2021 | Hyderabad, India

- Developed and maintained a dynamic **LXRGuide** using **Java** and **Spring Boot**, integrating **React JS** for the front end. Created and managed the "Featured Tools" section of the front end, utilizing React JS to enable webpage analysis for improved **Search Engine Performance.**
- Developed intuitive drop-down menus with **JavaScript** and **JQuery**, resulting in a **15%** reduction in user navigation time.
- In the back end, I engineered **Microservices** with **Spring Boot**, designing essential Spring Bean Classes for **Business logic**. Utilizing Spring MVC, I crafted **REST Controllers** for seamless integration. This approach not only streamlined our development process but also optimized the application's performance and maintainability.
- Enhanced tool performance by managing data effectively with **Hibernate ORM**, resulting in faster query execution and improved database interactions.
- Managed user data efficiently with **MongoDB**, enabling seamless storage of user preferences, tool usage, and website statistics, resulting in a **25**% improvement in data retrieval speed.
- I integrated **WooCommerce**, **WordPress**, **Shopify**, and **Google Analytics Tag Manager**, enhancing our project with streamlined product management, enriched customer experience, targeted marketing, and comprehensive analytics, resulting in a successful online store experience.
- Integrated user-friendly features for enhanced usability, highlighting my **UI/UX** design skills.

- I Implemented **AWS Lambda functions** to **Optimize** our back end through Serverless computing. These functions, tailored for real-time data processing, reduced response times, improved scalability, and brought cost savings, streamlining operations and enhancing system performance.
- Involved in team calls for using **Jenkins** for Continuous Integration and Continuous Delivery to assemble pipelines amid organization. efficient and cost-effective execution without the need to manage servers.
- I utilized **Unit Testing** and seamlessly integrated **Bugzilla** into the **CI/CD** pipeline. This approach resulted in minimized bugs, improved code quality, and accelerated development cycles, ensuring a more dependable and efficient project delivery process.

PHP Developer, OyeLabs 01/2019 – 01/2020 | Hyderabad, India

- I used **PHP** to create interactive web pages and build a system for users to easily sign up and log in on the project's website.
- Employed **JSON** format for seamless data exchange across application components, enhancing communication.
- Integrated **Swagger UI** with backend services to provide interactive API documentation, allowing developers to explore and test endpoints easily.
- Utilized **Tomcat** to host the app, making it accessible to users online.
- Managed code changes effectively using **Version Control tools**, supporting collaboration within the development team.
- Contributed to a **25%** increase in user engagement and satisfaction by collaborating with **UX/UI** designers to create intuitive and user-friendly interfaces.
- Verified **REST API** functionality using **Postman**, including calling location APIs for data verification.
- I integrated **SOAP** (Simple Object Access Protocol) into the code, allowing different programs to communicate using **XML** messages.
- Utilized **Docker** for containerization, ensuring consistent deployment across various environments and facilitating seamless collaboration between development and operations teams

Projects

Real-time Twitter Sentiment Analysis
While working at NetElixir, I developed a **Python** API enabling users to input a topic and access **Real-time tweets** through the **Twitter API**. Integrated **Google NLP** for **sentiment analysis** to classify tweets as Positive, Negative, or Neutral. Utilized **Power BI** for visualizing data and **Postman** for **API testing**, enhancing the project's functionality and presentation.

Convolutional Neural Network-based Automatic Extraction and Fine Generation, (Major project)
I employed **YOLOv2**, a **Machine Learning** algorithm, to automate helmetless two-wheeler detection in videos. Utilizing **Python**, I extracted number plates and updated fine data on the S**erver**. Further, I integrated SMS alerts to registered phone numbers, enhancing the project's functionality.

Electronic RE-USE
I developed the website, enabling users to trade damaged electronics for rebuilding. Utilized **JavaScript** to create interactive elements, **PHP** for backend functionality, and **CSS** for appealing designs.

Peer-to-Peer-chat-Stick-Topology/`Ring-Topology
Using **Java sockets** and **Threading** for **P2P** communication, enabling **real-time messaging** using the stick topology/ring topology in a distributed system. Java served as the backend, while the project also employed **MySQL** for data storage and Apache **Tomcat** for web **Server** hosting.

TransactionServer
I developed a T**ransaction Server** in Java to handle a configurable number of data objects functioning as **Banking** accounts. Each account holds a specific amount of money. This project incorporated Java for the backend and used **MySQL** for data storage, ensuring efficient account management.

GG Wander, Android Application
I designed the "GG Wander" Android app using **Kotlin** in **Android Studio**. The app utilized **Gradle** for efficient project management and Android platform for seamless user experience. It **targeted API 31** to ensure compatibility with the latest features.

Caesar-cipher-cracker
Developed **Python** code for **Caesar cipher Encryption/Decryption**, a crucial component of our project's security module. **Firewalls** were implemented to filter unauthorized **traffic**, with configured rules enhancing security by allowing only compliant traffic. This approach fortified our network against potential threats, ensuring robust data protection and system integrity.

Securing-a-basic-web-server-with-TLS-SSL
I utilized the **Python** ssl library to enhance the security of our web server by implementing **TLS/SSL** for the sockets. This integration ensured robust data encryption, safeguarded sensitive information, and provided a reliable and trustworthy platform for users. Through a detailed YouTube walkthrough, a working demo, and a **Wireshark** packet capture, I demonstrated the effectiveness of the secured server, reinforcing our project's security measures and enhancing user confidence.