Preetham John

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SUMMARY

Software Development Engineer with over 3+ years of expertise in designing, developing, and optimizing complex software solutions across various industries, including cloud security and data analytics. Proficient in Java, Python, and JavaScript, with a robust technical foundation in full-stack development, cloud technologies (AWS, Azure, GCP), and Agile methodologies. Recognized for enhancing system performance, reducing operational costs, and driving continuous improvements through innovative engineering solutions.

SKILLS

Languages: Java, Python, C++, PHP, JavaScript, SQL, Ruby, Bash

Web Technologies: HTML, CSS, Bootstrap, JavaScript, React, Angular, Rx.JS, Vue.JS, Node.JS, Express.JS, NPM

Frameworks & Libraries: Springboot, Spring MVCs, Spark, Apache spark, Keras, Scikit-Learn, NumPy, Tensorflow, Matplotlib, Pandas, Django

Databases: MySQL, SQL Server, PostgreSQL, Oracle, MongoDB, DynamoDB, Redis

DevOps: GIT, Jenkins, Docker, Kubernetes, CI/CD, Active Directory Management, Graphana, Postman, Bruno

Cloud: AWS, Azure, GCP, SQS, SNS, EC2, S3, IoT, Cloudwatch, IAM roles/policies, Lambda, API Gateway

Testing: Mockito, JUnit, Integration Tests, End-to-End (E2E) tests

Other Tools and Technologies: Data Science/Analysis, Artificial Intelligence, Machine Learning, Apache Airflow, RapidMiner

EXPERIENCE

Software Engineer

HCLTech   **March 2023 - Present，Chicago, IL (Remote)**

- Developed Java-based policy management tools for a cloud security platform using Core Java, Spring, and Hibernate, resulting in a 30% increase in deployment efficiency; managed version control with Git.
- Developed and deployed microservices architecture using containerization technologies, enhancing the agility and scalability of SaaS products.
- Deployed a microservices architecture handling over 500 transactions per second, improving system scalability by 150% and reducing operational costs by 30% through containerization with Docker and Kubernetes orchestration.
- Engineered a robust back-end processing system that scaled to handle a threefold increase in concurrent user traffic, employing Java and using Spring Boot framework, which enhanced system reliability.
- Authored comprehensive JUnit tests for 50+ classes, increasing code coverage by over 40% and ensuring robust platform functionality.
- Integrated JFrog Artifactory to manage artifacts and dependencies, improving build consistency and accelerating the development cycle.
- Implemented Continuous Integration/Continuous Deployment (CI/CD) using GitLab, reducing deployment time and minimizing human errors.
- Utilized ElasticSearch for implementing real-time search and logging capabilities, improving data analytics and operational visibility by over 50%.
- Interact with fellow members using Agile/scrum methodology, gathering code requirements & testing it for those requirements.
- Optimized SQL queries and database schemas on PostgreSQL, resulting in a 25% improvement in data retrieval times for high-load operations.
- Written Java code that enabled policy management for a cloud - based security platform, used Core Java, Spring, Hibernate and Mongo DB database and used Git for source control management.

Software Development Engineer

Amazon AWS   **September 2022 - March 2023，Seattle, WA**

- Performed various tasks, including Java 8 and Ruby on Rails, which have had a severe impact on customers.
- Utilized dependency injection techniques i.e. Dagger & Spring Beans to enhance smoothness & loose coupling of System.
- Managed and optimized large datasets using Hive at Amazon, ensuring efficient data processing and storage.
- Partnered with data scientists to restructure data accessibility for business, enhanced data-driven decision-making boosting productivity by 25%.
- Implemented & maintained services by Thrift at Amazon, facilitating communication between various microservices.
- Contributed to documentations and amazon code reviews.
- Developed and delivered a comprehensive suite of tools, powered by Elastic search and DynamoDB, to device owners for advanced device management and data analysis capabilities.
- Spearheaded the management of flexible data derived from IoT devices (JSON) feature, employing customers to index updates 10x times efficiently and aggregate data queries across multiple sources.

- During my tenure as SDE, single-handedly undertook the Region Build Project. This involved deploying all our existing services for a new region, including pipeline migration and synthesis. Also load tested 1M devices connectivity.
- Worked with Internal tools such as Region Management Software and Catalyst to streamline the Region Build Process, demonstrated expertise in integrating new features into the existing infrastructure, conducting comprehensive unit tests, and deploying them across various regions worldwide using diverse CI/CD pipelines.

Backend Software Engineer Intern
Village Book Builders   **May 2021 - August 2021，Utah (Remote)**
- Designed and implemented a sophisticated online web application utilizing Python and Django framework, providing seamless mentor and student engagement platforms with interactive functionalities.
- Optimized application performance and load times by implementing advanced query optimizations and using Django's caching mechanisms.
- Worked with Async Message processing systems like Kafka & JMS tech to process messages & integrate across systems, SDLC, including coding standards, code reviews, source control management, build processes, testing, and operations experience.
- Designed and implemented data processing workflows using Apache Spark, utilizing RDDs and DataFrames to handle large-scale data sets.
- Implemented automated testing frameworks for continuous integration using Jenkins, enhancing development cycle efficiency and reliability.
- Integrated Hadoop ecosystem tools to manage and process data, leveraging HDFS for storage and YARN for resource management.
- Developed data-driven strategies using market analysis and segmentation techniques to identify and engage key demographic groups effectively.

Junior Software Developer
Selvitate Technologies   **August 2019 - August 2020，Bengaluru, India**
- Developed interactive dashboards using JavaScript and Business Intelligence tools to visualize sales operations data, providing insights into sales performance.
- Analyzed large datasets to identify key metrics and performance indicators, presenting findings to stakeholders through detailed reports and data visualization.
- Carried out business analytics on least seller data from several e-commerce platforms, arranging vendor products strategically to become best sellers and increase visibility and sales.
- Employed prefabricated design patterns to shorten development times by applying JavaScript frameworks.
- Researched, designed & implemented scalable apps for information identification, extraction, analysis, retrieval & indexing.
- Helped & implemented some features of Access Request System using Java, Spring, JSP, JavaScript, JSTL, and Hibernate.
- Streamlined project management and bug tracking processes by implementing and managing Jira workflows, significantly enhancing team productivity and collaboration.

PROJECTS

Data Science: Prediction of Heart Disease using AI/ML
Northern Arizona University • https://github.com/pj323/AI-ML-Project • January 2022 - April 2022
- Collaborated in a team of three to design the model.
- Used Decision Trees and Single Layer Neural Network algorithms to conduct machine learning tasks, achieving an impressive avg prediction accuracy of 91%.
- Conducted a rigorous model comparison analysis to evaluate the performance characteristics, trade-offs, and suitability of Decision Trees and Single Layer Neural Network algorithms for the given tasks.

Walmart Data Processing Machine Learning and Data Normalization Techniques
Northern Arizona University • https://github.com/pj323/Walmart_dataProject • January 2021 - May 2021
- Implemented a linear regression model using Linear Regression
- Calculated the model's performance metrics, including R-squared (16% accuracy) and Mean Squared Error (MSE).
- The results indicate the model's ability to explain a small portion of the variance in weekly sales, suggesting potential areas for further improvement..

Student Placement Database Management System
Visvesvaraya Technological University • August 2018 - May 2019
- Spearheaded the development of a comprehensive Student Data Management System.
- Developed user-friendly UI leveraging Java's frontend capabilities, facilitating seamless data entry, retrieval, and updates for authorized personnel.
- Successfully integrated Java JDBC (Java Database Connectivity) to establish seamless communication between the frontend and the JDBMS, enabling real-time data synchronization and efficient database operations.

EDUCATION

Masters of Science in Computer Science
Northern Arizona University • Flagstaff, AZ • 2022

Bachelors of Engineering in Computer Science
Visvesvaraya Technological University • Bengaluru, Karnataka • 2019