SWAROOP P

Software Development Engineer 1

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Summary

Experienced **Software developer** with 1+ years of expertise in building robust backend systems using Django, Flask, and Spring boot. Proficient in deploying applications on AWS EC2, managing MySQL databases and developing RESTful APIs. Adept at delivering efficient, scalable solutions and improving system performance by up to 45%. Passionate about writing clean, maintainable code with a focus on minimizing latency and redundancy.

Technical Skills and Intrests

Programming languages: Python, Java

Frontend technologies: Reactjs, Html&Css , Bootstrap

Backend technologies: Django, Flask, Spring boot, RestApis, Celery, FireBase(Cloud messaging)

Database tools: MySQL, PostgreSQL, MongoDb, Redis

DevOps: AWS S3/EC2/dynamo

Other tools: Postman, Git, JIRA

Soft skills: Problem solving, Self-learning, Presentation, Adaptability

Education

Sastra deemed to be University
BTech | GPA: **8.01** / 10   06/2019 - 05/2023

Sri Chaitanya J.R College
Intermediate | GPA: **9.94** / 10   06/2017 - 03/2019

Experience

Growth-loops
Software Development Engineer 1   10/2023 - Present

- Led end-to-end development of backend systems using Java and Spring boot increasing backend efficiency by 45%.
- Managed full lifecycle of database operations, from schema design to query optimization in MySQL, enhancing data integrity and reducing query execution time by 30%.
- Developed secure and efficient RESTful APIs to facilitate seamless communication between frontend and backend systems.
- Implemented authentication and authorization using JWT tokens and built custom session management systems to enhance security.
- Utilized Celery with Redis for scheduling tasks and managing long-running operations in the background, improving system performance and scalability. Integrated tasks into workers for time-consuming processes, resulting in a smooth and efficient user experience.
- Leveraged GitHub for version control and Jira for agile project management, fostering collaborative development environments.
- Committed to crafting clean, maintainable code with a focus on minimizing latency and enhancing system reliability, resulting in streamlined workflows and exceptional product quality.
- Improved the overall system performance and reduced response latency by 20%, ensuring better user experience.
- **Technologies Used:** Java, Spring boot, MySQL, AWS EC2, GitHub, Jira, Celery, Redis, JWT.

Experience

S3 infosoft

Full stack developer intern   08/2023 - 09/2023

- Orchestrated the development of a cutting-edge Vulnerability Scanning website as the lead developer, utilizing React.js and Django
- Built an intuitive user interface and a robust backend, improving scanning efficiency and user engagement
- Implemented real-time scanning, comprehensive reporting, and a dashboard for easy monitoring, enhancing security measures
- **Technologies Used:** React.js, Django, MySQL, GitHub

Projects

UberClone

- Developed a comprehensive Uber-like ride-hailing application using Java Spring Boot, incorporating real-world functionalities to offer a seamless and secure experience for riders and drivers.

- Authentication & Authorization: Implemented JWT-based authentication with Spring Security, ensuring granular security by enforcing view-based access control according to user roles and permissions.
- OTP Generation & Email Integration: Built secure OTP generation for user verification, alongside email notifications for enhanced user engagement.
- Geospatial Data & Distance Calculation: Utilized PostgresGeo for efficient handling of geospatial data and integrated the OSRM (Open Source Routing Machine) for calculating the shortest route between riders and drivers.
- Dynamic Pricing & Surge Operations: Developed a robust ride cost surge system, adjusting prices based on multiple factors such as demand, time, and location, akin to real-world surge pricing strategies.
- Driver Selection Algorithms: Implemented strategies to match riders with drivers based on proximity or driver ratings, optimizing the user experience for faster rides or higher service quality.
- Payments & Ratings: Integrated Stripe for secure, seamless payments and implemented a dual-rating system for drivers and riders, fostering accountability and improving service quality.
- **Technologies Used**: Java Spring Boot, PostgresGeo, OSRM, Spring Security, JWT, Stripe.

WorkConnect

- Developed WorkConnect, a comprehensive chat and task management system designed to enhance productivity and streamline communication among company employees.
- Utilized React.js and CSS for a dynamic and responsive frontend, and Django for a robust backend. Implemented WebSockets for real-time, two-way communication, enabling instant messaging and taskupdates.
- Used MySQL to efficiently manage user data, messages, and tasks. This system significantly improved team collaboration,reduced email dependency, and optimized task tracking boosting team collaboration by 30%, making it an essential tool for managing projects and daily operations in a corporate environment.
- **Technologies Used:** React.js, Django, MySQL, WebSockets.

Food and cuisine recommendation system based on mood

- Developed an advanced food recommendation system that suggests dishes and cuisines based on user mood and preferences. Leveraged an SVM classifier with a 70-30 train-test split for mood-based recommendations, utilizing lemmatization to process user reviews.
- Implemented a cuisine-based recommender using TF-IDF and cosine similarity to accurately determine restaurant similarities with an accuracy of 85%. Enhanced user experience by providing highly personalized food recommendations, showcasing expertise in machine learning, natural language processing, and recommendation systems.
- **Technologies Used:** Python, SVM, TF-IDF, Natural Language Processing, Cosine Similarity.