Subhadip Pahari

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SUMMARY

- 4.5+ years of experience in developing and maintaining scalable software systems
- Expertise in Full Stack web development (Frontend - Backend - Database) and cross-platform mobile app development
- Expertise in software testing and deployment CI/CD

WORK EXPERIENCE

California State University Fullerton, California, USA   November 2022 - Current
Student Assistant App Development

- Working on ServiceNow and Deployed five user-facing applications using Catalog, Glide Record, Scripts
- Integrated third-party services and external APIs for ServiceNow workflow for a better user experience

Spak Engineering, Bangalore, India   September 2021 - August 2022
Full Stack Developer

- Led five developers in creating an Edtech product from scratch using technologies like Node.js, MySQL, and Docker.
- Evaluated the existing backend project, rewrote **30% of the old APIs** & created **20% of new REST endpoints**.
- Revamp database schema and Transform a single instance of MySQL server to 4 MySQL clusters (master-slave architecture), improving database query **from 5 seconds to 200 milliseconds**.
- Developed over 50+ documentation pages covering various aspects of the project, including backend, frontend, deployment, database, and system architecture.
- Successfully implemented **CI/CD** and utilized **Kubernetes** for scalable deployments, ensuring seamless software delivery and enhancing product performance and scalability.

Novelship, Singapore   May 2021 - September 2021
Product Engineer

- Developed JSON-based REST APIs using Node.js - PostgreSQL, **Transformed 20% of legacy code** in the back end.
- Contributed to the development of over 80 new React components for both web applications and cross-platform React Native mobile apps (Android and iOS).
- Successfully shipped a new feature to improve the product search experience for **1M+ users** across web and mobile platforms.
- Managed and scaled up the coupon system to handle a high volume of **3M+ daily requests** during the festive season.

Augustus 89, Gurgaon, India   November 2020 - April 2021
Senior Software Engineer

- Designed and maintain FinTech application modules using **Python**, Node, PostgreSQL, React, docker, and Kubernetes
- Played a crucial role in implementing the **User Personal Data Protection module** to ensure the utmost security and privacy of user data. Utilized tokenization and symmetric cipher encryption (AES256) to safeguard against potential data leaks or breaches.
- Designed and developed an auto **email parsing module** to extract consumer financial data for mutual fund and stock transactions, storing it in a database for analysis and categorization, streamlining financial processes and providing valuable insights

1101 Tech Corporation, Gurgaon, India   October 2018 - October 2020
Software Engineer

- Led the development of five applications from inception to completion, utilizing technologies such as Node.js, **Python**, MongoDB, SQL, React, and Docker.
- Successfully converted two monolithic code-based projects into **micro-service-based docker containers**, improving scalability and maintainability.
- Integrated third-party APIs to enhance the functionality and capabilities of the applications.
- Implemented a shift from session-based authentication to JWT-based authentication, enhancing security and user experience.
- **Refactored 25% of the existing codebase**, improving code quality and maintainability.

EDUCATION

California State University Fullerton, California, USA   Expected Graduation December 2023
Master of Science, Software Engineering   (GPA: 3.88)
Relevant Coursework: Software Architecture, Modern Software Management, Systems, and Software Standards & Requirements

PROJECTS

API Gateway - https://github.com/subhadip1203/API-gateway   August 2022 - November 2022
- Developed an API gateway using Node.js, Express.js, and Axios.
- Implemented functionalities such as request/response manipulation, call forwarding, and call chaining to streamline API communication.
- Incorporated basic security policies, including authorization and access control.
- Simplified troubleshooting by handling the non-availability of API endpoints and implementing effective error handling.
- Planned future enhancements to include rate limiting and observability features, such as metrics and logging.

JWT Library - https://github.com/subhadip1203/jwt   February 2020 - March 2020
- Developed a JWT library using Node.js built-in Crypto package without relying on external packages.
- Created functionality to generate and verify JWT tokens, allowing users to check if a token is invalid, valid, or valid but expired.
- Implemented cryptographic encryption types, including SHA256 and SHA512, for token signatures.
- Designed the library to be compatible with any Node.js server application without dependencies on specific frameworks like Express.

TECHNICAL SKILLS

1. **Languages / Database:**   Python, JavaScript, PHP, Go, Java, MySQL, PostgreSQL, Redis, Mongo
2. **Frameworks / Libraries:** Flask, Django, FastAPI, Node.js, React.js, Vue.js, React-Native, Spring Boot
3. **Applications / Developer Tools:** CI/CD**,** Kubernetes**,** Docker, Reverse Proxy, API gateway, AWS, Git, Jira, Agile (scrum & XP)