Skandan Senthil Nathan

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Skills

Languages: Python, Java, PHP, Go, JavaScript, SQL (MySQL)
Frameworks: FastAPI, Django, Laravel, Node.js, React, Flutter, Next.js
Developer Infrastructure: AWS, Docker, Git, Firebase, NoSQL, Redis, Kubernetes
Certifications: AWS Academy Cloud Foundations, AWS Academy Cloud Architecting

Experience

Software Development Engineer, Razorpay – Bangalore, India   July 2022 – July 2023

- Honored with the "Rookie MVP Award" for innovative contributions and initiatives, including increasing the payment success rate by 10% and developing robust tech specs and products in 2022-2023.
- Drove the test-driven development of end-to-end features and REST APIs across PHP, Go, Python, and Java microservices to enhance card and UPI recurring payment methods, impacting over 100,000 users.
- Elevated system reliability by implementing PagerDuty alerting functionality and Prometheus monitoring dashboards, resulting in a 20% reduction in payment downtime detection and resolution.
- Facilitated seamless collaboration among 2 agile internal teams and 2 external vendors, resulting in the successful execution of 10 projects within timelines, showcasing strong communication skills.

Software Development Engineer Intern, Razorpay – Bangalore, India   Jan 2022 – July 2022

- Drove the setup of new cron jobs for charging various types of subscriptions, optimizing subscription management processes, and increasing revenue by 5%.
- Amplified unit test and integration test coverage of the Razorpay Subscriptions product by 15% through the creation of automated PHPUnit and JUnit tests, enhancing product stability and reducing bug occurrences.
- Engineered automation scripts and APIs, notably facilitating payment method changes within Razorpay Subscriptions, reducing subscription cancellations and customer support queries by 10%.

Projects

Leave Application Management   github.com/skandansn/AOML

- Created a cross-platform application using Flutter and Firebase that enables students to apply for OD, ML, and leave online, and allows faculties to approve or deny applications.
- Hosted the application as a web app on Google Cloud and published it as an Android app on the Google Play Store.

ApnaLawyer   github.com/skandansn/apnaLawyer

- Leveraged FastAPI, LangChain, Pinecone, and Postgres to construct a scalable and efficient backend infrastructure, delivering swift responses to user queries.
- Designed and implemented an innovative LLM chatbot tailored for Indian law, supporting features like document-based query answering and audio input for legal inquiries.
- Developed a robust search infrastructure powered by OpenSearch for efficient retrieval of legal documents.

Education

Northeastern University, Boston, MA   Expected Dec 2024
Master of Science in Computer Science   GPA: 3.92/4.0
Amrita Vishwa Vidyapeetham, Coimbatore, India   May 2022
Bachelor of Technology in Computer Science and Engineering   GPA: 8.28/10.0

Awards and Publications

- Awarded the "Bravo SPOT Award" by Razorpay for the development and execution of a crucial government initiative (NPCI OC101) concerning the identification of the ultimate beneficiary in P2M payments.
- Published a technical paper titled "A Secured Blockchain Based Facial Recognition System for Two Factor Authentication Process" in Springer (April 2022).