Bharath Kumar (Software Engineer)

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Education

Karpagam College Of Engineering	2020-2024
Bachelor's In Information Technology (GPA: 8.52 / 10.00)	*Coimbatore, Tamilnadu*

Experience

Zoho

Member Technical Staff (Full stack) Tech Stack: Java, Servlets, PSQL, JavaScript, Ember Js, Internal Frameworks 2024 – Present

- Implemented Custom SMTP to fix **30**% delivery issues and avoid inbox storage for Enterprise customers.
- Integrated **Stripe** for identity verification before signing, adding an extra layer of document security.
- Integrated **AI into Zoho Sign**, cutting signing time by **70**%, with document summarization, key term extraction, and Q&A features.
- Integrated **Vouched ID, Didit** verification for signing, boosting document integrity **10x** over traditional methods.
- Engineered short URL upgrades, including prefill and QR code support, reducing user effort in dynamic document filling by **70**% and improving conversion.
- Resolved critical navigation issues and revamped two core sections, increasing feature visibility by **30**% and improving overall user flow.
- Optimized a core database query filtering over **700K+** rows by implementing strategic data mapping, cutting execution time by **90**% and significantly improving platform performance.
- Integrated Uanataca's new platform for user onboarding and cloud QES signing, boosting user engagement by **35**%
- Integrated OpenAI's API into the application to power a contract management feature. Constructed precise manual prompts to enable the model to identify missing contractual details, resulting in a **50**% reduction in document review time for users.
- Re-engineered the PDF viewer by reconstructing the rendering pipeline to support document fragmentation. This allowed reloading only the necessary document page after XL Orientation conversion via an internal API, reducing document load time by **80**% for cases involving over 10 documents.

Rently 2023 – 2024

Software Engineering Intern (Backend) Tech Stack: Ruby, Ruby on Rails, AWS, PostgreSQL, Docker, Kafka Coimbatore

- Implemented user role-based authentication for API's which almost secured **120+** APIs which were previously vulnerable.
- Collaboratively worked with a cross-team to direct a client credential-based API to allow access to requests from other microservice (Payment Module), reducing **30**% of the effort to create a new sync table.
- Contributed to Ruby on Rails upgrade, upgrading the Rails version from **v5.2** to **v7.2**. Specifically contributed to upgrading many of the dependency modules and fixed some major bugs that arose during the Rails upgrade.
- Designed and implemented the end-to-end workflow for premium property listings, which streamlined the process and boosted user satisfaction for **90**% of customers, translating to a **15**% reduction in support tickets related to property management.

Projects

Cab Booking Application | *Java, Servlets, JWT,Psql, Dijkstra, Java Script, Html, CSS, Apache Tomcat, Tomcat Valves*

- Secured API authentication by migrating from session-based cookies to JWT token authorization, reducing security vulnerabilities by 100% and modernizing the authentication layer.
- Implemented the Dijkstra Algorithm within the Cab Booking app to calculate the shortest path across a graph of 50+ interconnected nodes/locations, reducing route computation latency by 30% over baseline.

Technical Skills

Languages: C++, Java, Dart, Ruby, Python,JavaScript
Frameworks/Libraries: Flutter, Ember js, Ruby on Rails, Android SDK, J2EE, Servlets
Databases/Cloud: Postgres,AWS,Firebase
Concepts/Methodologies: API Design (REST, GraphQL, gRPC), Caching, Concurrency, Oauth, Agile, JWT, Dead Letter Queue