Atul Vinod

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SKILLS

- **Languages**: Java, Python, SQL, JavaScript, Typescript, HTML5/CSS3, C#

- **Libraries and Frameworks**: .NET, Spring, Hibernate, React.js, Redux, Next.js, Node.js, Express.js, Flask, Docker, AWS, Angular, DrizzleORM, Knex, Prisma

EXPERIENCE

Freelance Software Engineer   Sep. 2023 – Present
Upwork — Freelance.com
- Built a custom attendance management system in 4 months for a local school to improve teacher/administrator productivity utilizing **Node.js**, **React.js** and **AWS** services and micro-service architecture, resulting in faster attendance capture times, improved timetable management and simplifying the access of parents to their children data.

Software Engineer — Backend   June 2022 – Sept. 2023
inFeedo   *Remote*
- Architected "Chat-Engine", by designing tables for existing and new features, migrated analytics, acknowledgements, keyword alerts and encryption to the new engine. Optimized cross-service communication by redesigning and refactoring APIs to reduce payload size. Implemented logging and tracing of request body and SQL generated for each request for better observability. The new engine can handle 3x concurrent sessions.
- Unified text processing systems for vulgar, hateful and blocked keywords by creating a single package which leverages **Prefix tree**, resulting in O(word length) runtime complexity.
- Implemented AI summary and acknowledgement, to get a summarized view of users' chat and to give assurance about the concerns raised via custom-generated email.
- Identified slow queries during MySQL 8 upgrade and improved them using index forcing, join order optimizations, new indexes etc.
- Used **Javascript**, **Typescript**, **Express.js**, **React.js**, **MySQL**

Software Engineer & Internship— Full-Stack & Mobile Apps   Oct 2020 – Mar 2022
Keka Technologies   *Hyderabad, India*
- Contributed to the re-write of the Keka Mobile app to improve performance and to meet Null-safety standards, Implemented Expenses module, camera functionality such as profile picture and receipt capture, user profile with timeline, forced app updates, biometric app lock, WFH remote login and data caching.
- Built a plugin for offline attendance capture, to handle cases where the user is out of network area but has a continuous attendance capture policy, this specific feature improved Play Store ratings from 3.5 to 3.8 and increased app installs.
- Utilized **ASP.NET Core**,**Azure DevOps**, **Flutter**, **Angular**, and **SQL Server**

EDUCATION

Lovely Professional University   Punjab, India
B.Tech, Computer Science & Engineering (CGPA 7.33)   *Aug. 2017 – Aug. 2021*

PROJECTS

Thullo - Simple Kanban based Project Manager   Github | Project Link
- Developed a platform to track projects via Kanban board, Users can create projects, assign tasks to persons, add comments, custom banners, drag and drop cards etc. Used **PostgreSQL**, **Express.js**, **React**

BotMaker - a simple-to-use platform for building RAG based AI chatbots   Github | Project Link
- Developed a platform where people can create their chatbot using their data for training such as pdf, docs etc. or use existing chatbots.
- Built 3 Micro-services for uploading, embedding and chat for reliability and scalability.
- Used **Next.js**, **Flask**, **Fastify**, **LlamaIndex**, **Pinecone** for vector database, **PostgreSQL**,etc

CERTIFICATION

Upgrad Full Stack Engineer Certification   India
Acquired certification in Spring-boot, Hibernate JPA and React.js, Built Food Ordering API as project   *2019 – 2020*