Yash Aggarwal

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Work Experience

Freelancer - *Software Development Consultant*   April 2023 - Present

- Spearheaded the migration of the legacy site from monolithic AngularJS to the latest Angular 15 framework, coupled with microservices-based architecture, resulting in an 80% enhancement in speed and performance.
- Pioneered the development of an automated internal Employee Management system to leverage CRON jobs to manage tasks such as employee time in/out storage, attendance tracking, payroll generation, and timesheet management.
- Collaborated in designing and implementing features, use cases, proof of concepts, and APIs.
- Engineered a comprehensive application testing framework pipeline integrated with Sonar and pre-commit checks, slashing bug counts by 33% and boosting operational efficiency by 50%.
- Engineered and deployed automation solutions for routine database operations and scheduled tasks, effectively reclaiming approximately 15 man hours per week previously consumed by manual processes.

Compro Technologies - *Software Development Engineer*   July 2019 - July 2022

- Communicated with management and team directly within an agile remote work environment using Jira to conceptualize and deliver essential components within timelines, attaining an impressive 98% on-time delivery rate and building scalable apps accommodating over 80,000 concurrent global users.
- Delivered impactful new features like audio/video players, customized PDF viewer supporting annotations, notes, and masking features that increased user engagement by 30% and received positive feedback from 95% of users.
- Developed a user tracking system within a user session to analyze user clicks and usage patterns for experiments, resulting in a 10% predicted increase in gross margin.
- Implementing web workers to improve REST API performance from 8 to 2 secs.
- Designed and implemented an encryption algorithm that reduced data breaches and enhanced overall system security.
- Composed individualized training plans for each new hire, aligning skill sets with company goals and objectives, resulting in a 50% improvement in overall team performance.

HCL Technologies - *Summer Intern*   June 2018 - July 2018

- Optimized SQL database queries and performance to improve the application's speed and efficiency by 20%.
- Reduced performance issues, resulting in an application speed improvement of at least 25%.

Technical Skills

- **Web Technologies & Frameworks**: Express, Angular, React, Node, Electron, Prisma, Tailwind, Websockets.
- **Programming Languages**: Javascript, Python.
- **ML and Data**: Pandas, Seaborn, NumPy, Matplotlib, Sci-kit learn, Keras, Tensorflow, Pytorch, Huggingface, NLP.
- **Databases**: SQL, MYSQL, MongoDB, Hadoop, PouchDB, CouchDB, Postgres, RxDB, PlanetScale.
- **Tools**: Git, Github, AGILE, AWS, Azure, GCP, Heroku, Vercel, Render, JIRA, Travis CI, Jenkins, Visual Studio Code.

Education

University of California, Riverside, California   September 2022 - December 2023

- Master's in Computer Science **(GPA 3.8)**

Maharaja Agrasen Institute of Technology, New Delhi, India   August 2015 - July 2019

- B.tech in Information Technology **(GPA 8.06)**

Projects

DiscordClone - Next | Prisma | Clerk | MySQL | Tailwind | Shadcn   Nov 2023 - April 2024

- Developed a Discord-like app Managing user authentication, messaging, calls, and roles and other core functionality.

SpotifyClone - Next | Prisma | NextAuth | Postgres | Zustand | Tailwind   Jan 2024 - March 2024

- Developed a Spotify clone web application, replicating core functionalities of Spotify including music streaming, playlist creation, and song uploading.
- Implemented user authentication using NextAuth, with support for Google and GitHub OAuth, ensuring secure access to user accounts.

SwiftChat - Next | Prisma | NextAuth | MongoDB | Tailwind   Dec 2023 - March 2024

- Developed a peer-to-peer messaging application inspired by Facebook Messenger, from conception to deployment replicating the core functionalities.