

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

[QuickPost](#) - React | Cloudflare Workers | Hono | Prisma | PostgreSQL

March 2024

- Blog application that allows users to create, edit, and view blogs.

[SwiftChat](#) - MERN Stack

February 2024

- Developed a chat application using websockets to enable real-time communication between users.
- Implemented secure user authentication to ensure the privacy and security of user conversations.

[SHTR](#) - MERN Stack

February 2024

- Developed a full-stack URL shortener application using the MERN stack with 100+ active users and 1000+ daily redirects.

[DigitalDime](#) - MERN Stack

January 2024

- Developed an e-wallet application to simulate real-world financial transactions.
- Implemented secure user authentication and authorization functionalities to ensure the privacy and integrity of user accounts and transactions.