Tulika Tiwari

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WORK EXPERIENCE

SmartReach.io | Early-Stage SaaS Startup — Remote
SDE-1 — *Oct 2022 - present*

- Frontend Development (UI): **Initiated the extraction of shared logic into an NPM package** and led the development of reusable UI components across web and Chrome platforms. **Reduced development time by 30%**, **cut code duplication by 70%**, and improved design consistency and maintainability.
- Backend Development (API): Refactored backend for modularity and testability, **increasing code coverage from 20% to 80%-100%** in key components. Optimized database queries, **improving API response times by 15%**, **reducing production bugs by 40%**, and enhancing system performance under load.
- Public API Development: Developed APIs with cURL support, documented endpoints, and applied conditional data formatting, ensuring robust validation and seamless backend integration.
- Third-Party Integrations:
  * Stripe & FastSpring: Executed seamless payment processing, including subscription management and one-time purchases.
  * Twilio: Spearheaded end-to-end development of a cross-platform calling system (web, mobile, Chrome extension) using Twilio, **boosting prospect connectivity by 40%**. Engineered and deployed key features like call monitoring, caller ID verification, number provisioning, and voicemail drops, ensuring a seamless user experience.
  * Pusher: Integrated real-time notifications to enhance the user experience, ensuring instant updates for call statuses and other critical events.
  * Captain Data: Built full-scale LinkedIn automation with Captain Data, covering user onboarding, task orchestration, and webhook workflows-**boosting outreach efficiency 4× and saving 2+ hours per user daily**.
  * Slack: Configured automated Slack notifications for system alerts, updates, and user activities, improving team collaboration and monitoring.
- Code Reviews: Led code reviews to maintain quality and consistency, mentored junior developers, and promoted best practices in testing, performance, and modular design.
- CI/CD Automation: Solely designed and implemented GitHub Actions pipelines to enforce quality gates, optimize caching, and integrate Docker workflows. Enabled automatic cancellation of redundant jobs, **reducing test runtimes by 3–5 minutes** and enhancing pipeline efficiency.

TECHNICAL EXPERIENCE

INMAS, DRDO, Delhi — Remote
Student Intern — *July 2021 - Jan 2022*

- Project: UAV Interface Design and Estimating Cognitive Workload.
- Created a desktop UAV interface in Unity for search and reconnaissance, implementing core control functionalities.
- Tools: Unity, C#, VS Code.

PROJECTS

Path Finding Visualizer
(React, JavaScript, GitHub)

- Programmed a web-based application to visually demonstrate pathfinding algorithms such as Dijkstra's, A*, BFS, and DFS.
- Implemented interactive features, including the ability to add walls, move the start point, and visualize algorithm progress in real-time.

EDUCATION

Banasthali Vidyapith — Rajasthan, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.68 — *July 2018 - May 2022*

SKILLS SUMMARY

- **Languages**: C/C++, Java, Scala, TypeScript, Dart
- **Technologies**: React, Tailwind CSS, Docker, Redis, RabbitMQ, SQLite, Firebase, PostgreSQL, GCP
- **Tools**: VS Code, IntelliJ IDEA, GIT, Android Studio, Unity, Flutter

PERSONAL ACHIEVEMENTS

- Achieved the **Specialist rank on Codeforces by coding in C++**, demonstrating advanced problem-solving and competitive programming skills.
- Attained a **4-star rating on CodeChef (C++)**, showcasing strong algorithmic and optimization techniques.