

# ABHAY PRAJAPATI

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## PROFESSIONAL SUMMARY

Final-year Computer Science & Business Systems student graduating 2026, with real production experience building and shipping software. Joined KiarX as a UI/UX intern and ended up owning full-stack development of 4+ modules now live in production — writing Angular + TypeScript frontends, PHP backends, and integrating REST APIs from scratch. Comfortable across the full SDLC: requirements to deployment to post-release debugging. Strong in C++, Data Structures & Algorithms, and object-oriented design. Looking for a software developer role where I can write good code, work with a team, and keep growing.

## WORK EXPERIENCE

**KiarX — Uddeshya Technologies Pvt. Ltd.** · *Software Developer & UI/UX Design Intern* Jan 2026 – May 2026

★ **Joined as a UI/UX intern — took on full-stack development and shipped 4+ modules now LIVE in production at [kiarx.com](https://kiarx.com)**

- Owned full-stack delivery of the **Account Management Module**: designed component hierarchy in Figma, implemented **MVC controllers** and **CRUD endpoints** in PHP, consumed REST APIs on the Angular frontend, and deployed to the production server.
- Developed reusable **Angular components** and **TypeScript services** for HR and Operations Management modules; wrote PHP route handlers and SQL queries supporting data-driven UI with **server-side filtering** and pagination.
- Shipped three production dashboards — Truck Event Page, LE Monitoring Dashboard, Loading Zone War Room — designed in Figma with a **shared token system** (spacing, colour, typography) ensuring **pixel-level consistency** across all three.
- Authored **unit test cases**, diagnosed production bugs via log analysis and breakpoint debugging in VS Code, and applied **SQL query optimisation** to reduce page load time across key modules.
- Maintained feature branches in Git, raised pull requests, conducted peer **code reviews**, and shipped within **two-week Agile sprints** — following SDLC from requirements through deployment throughout the internship.

## PROJECTS

**Flight Route Optimisation System** · *C++ · Graphs · Dijkstra's Algorithm · Priority Queues* May 2025

- Implemented **Dijkstra's** single-source shortest-path algorithm over a weighted directed graph using an adjacency list and min-heap priority queue; achieves  **$O((V+E) \log V)$**  time complexity for airport-to-airport route resolution.
- Supported **dynamic edge insertion** at runtime; validated correctness against disconnected components, zero-weight edges, and dense graphs (500+ nodes) using a **custom C++ test harness**.

**BigInteger Arithmetic Library** · *C++ · OOP · Operator Overloading · STL* Jan 2025

- Implemented BigInteger as a **`std::vector<int>`** storing base-10 digits; overloaded **`+`, `-`, `*`, `/`, `%`** using long-multiplication and long-division algorithms with  **$O(n^2)$  worst-case** complexity and correct sign handling.
- Extended with number-theory functions — nth Fibonacci, factorial, Catalan numbers, and integer square root via **Newton's method** — all operating natively on BigInteger without stdlib arithmetic.

**CodeHub — Coding Learning Platform** · *HTML · CSS · JavaScript · Responsive Design* Oct 2024

- Built a multi-page SPA using vanilla JS with a **client-side router**; implemented dynamic DOM rendering, **real-time answer validation**, score tracking, and session persistence via **localStorage** — no framework dependency.
- Applied **CSS Grid and Flexbox** for a fully responsive layout tested across **320px–1440px** viewports; achieved cross-browser rendering consistency on Chrome, Firefox, and Safari.

## TECHNICAL SKILLS

**Languages:** C++, C, JavaScript (ES6+), TypeScript, PHP, Python — basics

**Frontend:** Angular, HTML5, CSS3, Responsive Web Design, DOM manipulation, component architecture

**Backend & APIs:** PHP, REST API design & integration, MVC pattern, SQL, database schema design, server-side logic

**Software Engineering:** Data Structures & Algorithms, OOP, SDLC, Agile/Scrum, Git & GitHub, unit testing, debugging, code review

**Design & Tools:** Figma (wireframes, prototypes, design systems), VS Code, Postman, Photoshop, Canva

## EDUCATION

**U.V. Patel College of Engineering, Gujarat** · *B.E. — Computer Science & Business Systems* 2022 – 2026

**Key subjects:** Data Structures & Algorithms · DBMS & SQL · Object-Oriented Programming · Operating Systems · Compiler Design · Machine Learning · Business Strategy & Communication

## CERTIFICATIONS & ACHIEVEMENTS

- ▶ **Google Cloud Study Jams** — GFG × Google Cloud — cloud infrastructure, compute, and storage fundamentals
- ▶ **Python Essentials 2** — Cisco Networking Academy — functions, OOP, file I/O, and error handling in Python
- ▶ **HackOdisha 5.0** — National-level 24-hour hackathon — competed with 500+ teams, built and presented a working prototype
- ▶ **Hack-AI-Thon** — AI-focused competitive event — applied ML thinking and algorithmic problem-solving under time pressure

## CURRENTLY EXPLORING

- ▶ Solving LeetCode problems daily — graph traversal (**BFS/DFS**, **topological sort**), dynamic programming (**memoisation**, tabulation), and sliding window patterns; targeting 300+ problems solved.
- ▶ Studying React (hooks, **Context API**, React Query) after Angular; picking up system design — **consistent hashing**, **DB indexing**, caching strategies, horizontal scaling.