VISHAL KUMAR

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EDUCATION

Board/Degree	Passing Year	Name of Institution
BCA (Bachelor of Computer Applications)	2025	CIMAGE

EXPERIENCE

- **Freelancer** (Dec 2021-Present)
  - o Completed and managed multiple projects for clients, delivering customized solutions in **web development**, **automation**, **web scrapping**, **web automation**, **system applications**, **android apps** etc.
  - o Worked on **JavaFX** (System Application), **Playwright**, **Selenium** (web scrapping and automation), **Flutter** etc.
  - o Successfully met client requirements within deadlines ensuring quality outcomes and also provided continuous support and maintenance as per client needs.

PROJECTS

- **Hurdle Escape Game**   **– Using Flutter Flame Game Engine**
  - o Developed an endless runner game where players dodge obstacles, collect coins, and power-ups to progress.
  - o Integrated background audio and sound effects for actions like jumping, collecting coins, and other in-game events.
  - o Designed and implemented various character animations, enhancing the gameplay experience.
  - o Utilized **Flame Game Engine** for efficient game development and smooth performance.
  - o Managed the logic for random spawning of hurdles and coins to create dynamic gameplay.

- **CodeCombat Contest Website**   **– Using Django/NextJS/TailWind/Docker**
  - o Developed a coding contest platform supporting two types of users: **Organizers** (who create contests) and **Developers** (who participate in them).
  - o Implemented features allowing organizers to set multiple coding questions with customizable timeouts for each.
  - o Enabled developers to submit solutions in any programming language of their choice.
  - o Built a secure and scalable backend that dynamically creates **Docker containers** for each submission, running the code in a **sandboxed environment**.
  - o Integrated **automated result evaluation** based on test case checks, with results stored for each submission.

- **CIMAGE Attendance Monitoring Android App**   **– Using Flutter**
  - o Developed an Android app with an integrated **WebView** displaying the attendance portal of the college website.
  - o Modified the webpage within WebView using **JavaScript integration** to enhance user interactions and functionalities.
  - o Implemented a **home screen widget** that automatically refreshes every hour via Android's background service, showing **attendance data** and charts.
  - o Utilized background service to scrape the attendance data from the site, securely storing **username and password locally** for seamless data retrieval.
  - o The app is being actively used by students to track attendance, making the process more convenient and automated.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Dart, JavaScript, Java
- **Frameworks:** Django, Flutter, React, NextJS
- **Tools:** Docker, Git, Github, MySQL, MongoDB
- **Cloud Platforms:** AWS, Heroku, Pterodactyl
- **Certificates:** Python, Flutter and Android Development

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Secured **1st place** in the college-wide coding contest **CodeCombat 2.0**, showcasing expertise in problem-solving, algorithms, and coding efficiency.
- **Guided students through the basics of game development**, sharing knowledge and practical skills in game design and programming during the Career Mahakumbh event held at college.