

Abhijit Upadhyay

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EDUCATION

Monash University | *Bachelor of Computer Science*

Clayton, VIC | **July 2022 – July 2025**

- Major in Advanced Computer Science (Algorithms & Data Structures)
- Relevant Modules: Full Stack Development, Algorithms and Data Structures, Object Oriented Programming
- WAM:** 88.711
- GPA:** 3.875/4.00

Delhi Public School | *High School Diploma*

Raipur, Chhattisgarh, India | **July 2021**

- Major in Science (Physics, Chemistry, & Math)
- Grade:** 97.6%
- Earned Excellence Award for highest grade in Computer Science.

EXPERIENCE

Private Tutor | *Freelance (via Vicky's Classroom)*

Remote | **Nov 2023 – Feb 2024 and Nov 2024 – Feb 2025**

- Delivered tailored mathematics instruction to 6 middle school students, adjusting teaching strategies to fit individual learning styles.
- Created and assessed 50+ custom problem sets to reinforce understanding and track student progress.
- Helped students improve average test scores by 15 marks within 3 months through structured guidance and feedback.

Packaging Supervisor | *Chhattisgarh Agro Biotech Lab*

Raipur, Chhattisgarh, India | **Aug 2021 – May 2022**

- Managed over 50 packaging cycles with 96% on-time completion by optimizing daily workflows and team coordination.
- Conducted quality assurance on 80+ product batches, identifying and preventing packaging defects before dispatch.
- Improved packaging efficiency by resolving bottlenecks and aligning production timelines with delivery schedules.

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, C, Haskell

Frameworks & Libraries: React, Next, Express, Angular, Node.js, Tailwind CSS

Mobile & UI/UX: Android Studio, Figma

Databases: MongoDB, PostgreSQL, SQL

Tools & Practices: Git, OOP, REST, WebSockets, CI/CD, System Design

PROJECTS

Inbox Automation & Alert System | July 2025

GitHub Repository: <https://github.com/Nutty1704/email-inbox-automation>

- Built a Python script using **imaplib** and **Gemini** to fetch Gmail threads since last read, parse and categorize individual emails by priority, sender, and subject, storing detailed data and generating a **comprehensive inbox summary** with counts of urgent messages in a PostgreSQL database.
- Developed a **Discord bot** with **discord.js** to push real-time message alerts and support slash commands to retrieve email summaries by priority, sender, or category.

- Automated daily ingestion using **GitHub Actions** and deployed the bot on a **DigitalOcean droplet** with full **CI/CD** for continuous delivery.
- Reduced daily inbox triage time by **50%** through automating email parsing, summarisation, and notification workflows.

TasteMonash – UniEats App | Feb 2025 – June 2025

Live Demo: <https://www.tastemonash.app>

- Developed a full-stack restaurant discovery platform enabling anonymous reviews, business management, and role-based access control to serve the Monash University dining community.
- Implemented **RESTful API design** with **Express.js** and **MongoDB**, featuring custom database indexing, pagination, and **scheduled jobs** using node-cron for automated deal expiration management.
- Built a responsive frontend using **React** and **Tailwind CSS** with Zustand state management, while integrating **PassportJS** authentication, cloud storage for image uploads, and comprehensive error handling across the MERN stack.
- Set up **CI/CD** pipelines on a virtual machine to automate deployment for both frontend and backend services, ensuring reliable updates and streamlined development workflows.

Donezo – Task Manager | Jan 2025 – Mar 2025

Live Demo: <https://donezo.me>

- Developed a full-stack Kanban board enabling real-time collaboration, authentication, and comprehensive task management features such as labels, due dates, task assignments, and checkpoints.
- Integrated user authentication using Clerk for secure login and session management, ensuring seamless user experience across multiple devices.
- Utilized **React** and **Tailwind** for a responsive and modern frontend, while leveraging **Node.js**, **Express**, and **Socket.io** on the backend to provide real-time updates and efficient task synchronization.

Chatty | Nov 2024 – Dec 2024

GitHub Repository : <https://github.com/Nutty1704/chat-app>

- Developed a full-stack real-time chat application with features including user authentication, private messaging, and live online status tracking to enhance user interaction.
- Implemented **Socket.io** for real-time messaging and notifications, ensuring smooth, low-latency communication between users.
- Built the frontend using **React** and **Tailwind** for a responsive, user-friendly interface, with a **Node.js** and **Express** backend to handle server-side logic and manage WebSocket connections.

Guitar Hero | Aug 2024

GitHub Repository: <https://github.com/Nutty1704/guitar-hero-vanilla>

- Created a **vanilla TypeScript** game replicating the classic Guitar Hero experience, using **HTML** and **CSS** for a responsive and interactive user interface.
- Developed a custom game state management system to track player progress, including features like multipliers and song selection, to enhance gameplay dynamics.
- Implemented smooth gameplay mechanics, such as real-time input detection and score calculation, to provide an authentic and challenging music game experience.