

Aditya Rishab Baxla

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PROFESSIONAL EXPERIENCE

Indian Institute of Technology Madras BS Degree

Chennai, TN (Office/Hybrid)

Course Instructor Modern Application Development and Python

Aug 2024 - Current

- Demonstrated coding abilities by solving **150+** technical issues in student's python code
- Built and maintained a full-stack **Mentor-Mentee Management Platform** using Flask, Jinja, and PostgreSQL, handled user onboarding, session tracking, and analytics.
- Designed and deployed a slotting algorithm to auto-assign mentees based on preferences, slot availability, and capacity constraints, ensuring fairness.
- Created an admin dashboard with live mentoring metrics using Chart.js, helping instructors monitor progress, attendance, and engagement.
- Led improvements in project coordination workflows, streamlined assignment submissions, mentor interactions, and term configuration through automation.
- Implemented process improvements to enhance **project management efficiency**, showcasing organizational and project coordination abilities applicable to software development lifecycle.
- Designed and implemented a CI/CD-based auto-evaluation pipeline using GitHub Actions and Google Sheets API to automate grading, scaled to 50+ student repositories and eliminated manual intervention.
- Built GitTracker, a system to fetch commit history and submission timelines from student GitHub repositories, enhanced visibility into individual contribution and progress.

Indian Institute of Technology Madras BS Degree

Chennai, TN (Remote)

Internship Course Instructor Modern Application Development

Jan 2024 - July 2024

- Developed and delivered comprehensive **sessions** on JavaScript, Python, and VueJS to a diverse audience of **200+** students, fostering strong **communication** and **presentation skills**, increasing the live session engagement by **8%**.
- Established effective systems for resolving technical queries and doubts, demonstrating **problem-solving** abilities crucial for addressing complex **coding** challenges in **team environments**.
- Designed and curated examination materials to assess student proficiency, showcasing **analytical skills** and attention to detail essential for **software design** and **development**.

EDUCATION

Indian Institute of Technology Madras (IIT Madras)

Chennai, TN (2017 - 2024)

Metallurgical and Materials Engineering | B.Tech + M.Tech Dual Degree

CGPA: 6.31 / 10

St. Xavier's School, Ranchi

Ranchi, JH (2016)

XII, ISC

Percentage: 83.2 / 100

St. Xavier's School, Ranchi

Ranchi, JH (2014)

X, ICSE

Percentage: 89.6 / 100

PROJECTS

[Doodle N Learn](#) (Flutter, Dart)

- Created an **educational** android application using **Flutter** and **Dart** while implementing custom painting and **gesture detection** for making alphabets, thereby employing a hands-on '**learn by doing**' approach.
- Designed **visually** pleasing interfaces and integrated **audio pronunciation**, making alphabet learning **interactive** and enjoyable for young users.

Game-Showcase (React, Javascript)

- Developed a **dynamic** and **responsive** website in **React.js** to showcase the game cards and data obtained via **RESTful API**, leveraging **TypeScript** to enhance code **readability** and maintainability.
- Emphasized on modern **UI/UX** design patterns with the help of **ChakraUI** to create a visually pleasing dashboard, while incorporating '**sort**' and '**group by**' functionality using **javascript**.

School Management System (Vue.js, Electron, Node.js, Javascript, SQLite)

- Developed a cross-platform desktop application to manage school operations, including student enrollment, fee tracking, class scheduling, and academic record management.
- Integrated real-time fee notifications, receipt generation, and user role access for admin, teachers, and clerical staff.
- Designed modular components using Vue 3 with Composition API, enabling plug-and-play features like attendance logs, infra inventory, and staff payroll.
- Packaged and deployed using Electron with persistent local storage via SQLite and IPC communication.

App Dev Docs (VitePress, Vue.js, JavaScript)

- Built a lightweight, fast-loading documentation site to help beginners learn modern application development concepts in JavaScript and Vue.js.
- Organized docs into thematic modules with live code snippets and interactive code playgrounds.
- Deployed as a static site using VitePress with markdown support, syntax highlighting, and optimized SEO for developer search queries.
- Incorporated a feedback module and GitHub integration to encourage open-source contributions.

CS Market Analytics (Python, Flask, Pandas, Steam Market API, Scikit-learn)

- Developed a backend service to fetch real-time CS:GO skin market data using the Steam Marketplace API.
- Built a dynamic dashboard to track item prices, volume trends, and market volatility over time.
- Added predictive analytics module using regression models to forecast skin price fluctuations based on historical and seasonal patterns.
- Stored data using PostgreSQL and visualized trends with Matplotlib and Chart.js in a simple frontend.

SKILLS

Libraries and Frameworks :

Flask, Vue.js, Node.js, Spring Boot, Django, React, Express.js

Softwares :

Excel, Git, Github, Docker, Github Actions, PostgreSQL, Vercel

Languages :

Java, Python, JavaScript, SQL, HTML, CSS, Godot, Go

ACHIEVEMENTS

- Solved **200+** questions on Leetcode
- **Maintained and developed** a full-stack Mentor–Mentee platform used by **2000+** students and instructors, improving mentorship coordination and visibility across terms.