REHATBIR SINGH

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EDUCATION

University of Wisconsin-Madison — Madison, WI, USA
BS Computer Science *GPA: TBD* — Sep 2024 - May 2028

Mayoor Private School — Abu Dhabi, United Arab Emirates
Central Board of Secondary Education, India Science Stream *GPA: 97.2/100* — Apr 2020 - Mar 2024

EXPERIENCE

Data Science for Sustainable Development @ UW-Madison — Madison, WI, USA
Student Developer — Sep 2024 - Dec 2024

- Contributed to Red-CORAL, an open-source crime visualization tool for organized crime in Central America aligned with UN SDG 16, by developing a statistics dashboard using React and Firebase.
- Learned to integrate Node.js modules like Leaflet for geospatial visualization and Lucide for custom icons, while attending biweekly workshops on technicals skills and professional development.

The Godspeed Company — Abu Dhabi, United Arab Emirates
Co-founder, CTO, Lead Web Developer — Jun 2024 - Aug 2024

- Organized and led a team of full-stack developers that used React and Next.js to build a website that connects teenagers with professional opportunities they're passionate about.
- Used Python and Django to create a backend service that takes responses from a personality quiz and suggests careers that the quiz taker may like.
- Scraped 13,000+ LinkedIn profiles using Python/Selenium to determine target audience and raise awareness about our company.

Class Digital Leader — Abu Dhabi, United Arab Emirates
Leadership Experience in High School — May 2021 - Mar 2022

- Mentored 18 classmates on technology and IT, while presenting weekly reports on issues to IT staff.
- Recognized as "Best Digital Leader" for the 2021-2022 academic year for leadership in tech education.

PROJECTS

Drippr *Swift, SwiftUI, Supabase, RealityKit, Xcode*
An iOS app for coffee enthusiasts to explore and create recipes for brewers like V60, Chemex, and Aeropress. It offers a recipe browser, customizable recipes, and AR tutorials. With a dynamic step-by-step timer, it simplifies brewing for beginners. Designed with a native iOS feel for a seamless user experience.

Blitz Board *Python, Flask, JavaScript, HTML5/Tailwind, WebSockets, PostgreSQL, Docker*
https://blitz.codeboi.dev
A real-time multiplayer typing game nearly 300 total games played, inspired by my passion for typing. It brings competitive typists together for live typing tests, featuring performance tracking and leaderboards to foster a community of speed and accuracy enthusiasts.

Sparta Bot *Python, Discord API, PostgreSQL, SQLAlchemy, Linux*
https://github.com/SpartaDevTeam/SpartaBot
An open-source custom Discord bot for server management, offering auto-moderation, reaction roles, message sniping, and automated responses that serves 150,000+ users across 300+ communities. It also includes music integration and fun commands to promote member engagement.

SKILLS

Programming:	Python, Swift, JavaScript/TypeScript, C/C++, Rust, Java, Dart, Git (VCS)
Libraries:	Django, Flask, SQLAlchemy, SwiftUI, React, Next.js, Flutter, OpenGL, Godot
Technologies:	Docker, Nginx, PostgreSQL, MySQL, Linux
Others:	Problem Solving, Communication, Teamwork, Making Great Coffee, Playing the Guitar

AWARDS

1st Place in CodeQuest 2023 — Bright Riders School
Competed against 15 other programmers to solve two Leetcode programming problems in Python in under 3 hours, with a focus on speed, correctness, readability, and time-space efficiency. — Nov 2023

Winner of iOS App Dev Challenge — MDS UAE
Developed Earthify, an open-source sustainability marketplace app for recirculating used goods. Won first place overall and was a finalist in the environment category. — Dec 2021