

# REHATBIR SINGH

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## EDUCATION

### University of Wisconsin-Madison

BS Computer Sciences and Data Science *GPA: 4.0/4.0 (Cumulative)*

Madison, WI, USA

Sep 2024 - May 2028

### Mayoor Private School

Indian Central Board of Secondary Education Science Stream *GPA: 97.2/100*

Abu Dhabi, United Arab Emirates

Apr 2020 - Mar 2024

## EXPERIENCE

### Data Science for Sustainable Development @ UW-Madison

*Student Developer*

Madison, WI, USA

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 technical skills and professional development.

### The Godspeed Company

*Co-founder, Lead Web Developer*

Abu Dhabi, United Arab Emirates

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

*Leadership Experience in High School*

Abu Dhabi, United Arab Emirates

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.

## 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

## PROJECTS

### Flux Flutter, Dart, Firebase, Python

[https://linktr.ee/flux\\_app](https://linktr.ee/flux_app)

Developed, deployed and marketed a mobile app designed to connect college students and young entrepreneurs based on complementary skills and shared business interests. Featuring professional networking combined with Tinder-style swiping interface for intuitive user experience. Successfully launched MVP at UW-Madison, attracting 100+ users within initial deployment period.

### Path Tracing Renderer C, OpenGL, GLSL

[https://github.com/MysteryCoder456/path\\_tracer\\_c](https://github.com/MysteryCoder456/path_tracer_c)

Developed a path tracing renderer, inspired by the book Physically Based Rendering. Leveraged OpenGL for rendering pipelines and applied advanced math concepts like geometry, vector mathematics, calculus for accurate, physically-based light ray simulations of real world objects.

### Blitz Board Python, Flask, JavaScript, WebSockets, PostgreSQL, Docker

<https://blitz.codeboi.dev>

A real-time multiplayer typing game powered by WebSockets with nearly 300 total games played, inspired by my passion for typing. Features performance tracking and leaderboards to foster a community of speed and accuracy enthusiasts. Deployed to the web using Nginx and Docker containers.

## AWARDS

### Honorable Mention in MadData Hackathon

dotData @ UW-Madison

Recognized for building & presenting Wavelength, an app that analyzes Spotify libraries to connect students with similar music tastes using data science techniques and social discovery algorithms.

Feb 2025

### Dean's List

University of Wisconsin-Madison

Recognized on the Dean's List at the University of Wisconsin-Madison for achieving a 4.0 GPA, signifying academic excellence.

Fall 2024, Spring 2025