REHATBIR SINGH

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EDUCATION

University of Wisconsin-Madison — Madison, WI, USA
BS Computer Sciences and Data Science *GPA: 4.0/4.0 (Cumulative)* — Sep 2024 - May 2028

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

EXPERIENCE

Al Masaood LLC — Abu Dhabi, United Arab Emirates
Software Developer Intern — May 2025 - Present

- Used React and SPFx to build a timesheet tracker deployed on the company's SharePoint intranet for 30+ field technicians, supporting their transition to a paperless workflow and future SAP integration.
- Currently working with the insurance department to develop an app to streamline vehicle inventory and insurance processes, involving data modeling, requirement analysis, integration with SharePoint APIs.
- Actively gaining hands-on experience with Jira, sprint planning, and stakeholder meetings, while learning corporate IT workflows and gaining exposure to business units' systems.

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 technical skills and professional development.

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

- Led a team of developers using React and Next.js to build a platform connecting teens with career opportunities, with a backend in Python/Django that matches users to roles based on a personality quiz.
- Scraped 13,000+ LinkedIn profiles using Python and Selenium to analyze the target audience and support outreach efforts to raise awareness about our company.

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 *Swift, SwiftUI, Firebase, Python, Xcode Cloud* — 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. Launched MVP at UW–Madison, attracting 100+ users within initial deployment period with plans to expand over the summer.

Path Tracing Renderer *C, OpenGL, GLSL* — 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 300+ games played. Features performance tracking and leaderboards. Self-hosted and 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