

Riteshwar Singh Brar

riteshwarbrar@gmail.com | +1(608) -724-4822 | [LinkedIn](#) | Open to relocation

EDUCATION

University of Wisconsin-Madison

B.S. Computer Science | GPA: 3.5/4.0 | 09/2020 - 05/2024

Concentrations: Machine learning, Algorithmic Foundations, Application & Web development, Systems Programming.

SKILLS

C/C++, Java, Python, Assembly, JavaScript, HTML/CSS, Haskell, Linux, Windows, MS Office, Git, Twilio, MongoDB, Node.js, Bash, Grafana, React.js, DevOps, Apica, Postman, Unit Testing, Data Integration with MuleSoft, AWS, PyTorch, OpenCV, Numpy, REST APIs, xv6 OS, MySQL, Azure, Windows Kernel.

WORK EXPERIENCE

Software Engineering Intern - Data Engineering

Volvo Cars USA | Mahwah, NJ | Summer 2023

JavaScript, Postman, Apica, Grafana

- Collaborated with other engineers in the development of dashboards and the formulation of a blueprint for future dashboard projects, aimed at optimizing team efficiency and ensuring uniformity, leading to a 30% improvement in data visibility and operational clarity.
- Implemented over 60 synthetic checks and automated alerts, reducing API and application downtime by 70%, enabling proactive support and monitoring of application endpoints using scripts.

Pre-Calculus Tutor

Department of Mathematics | Madison, WI | Fall 2022-Spring 2023

- Facilitated enhanced comprehension of mathematical concepts through simplified explanations, resulting in a 15% increase in Math lab attendance.
- Assisted students in grasping complex concepts through detailed examples and explanations, demonstrating adept management skills by concurrently supporting 4-5 individuals at once.

PROJECTS

PillPal

JavaScript, Twilio, MongoDB, Node.js, HTML and CSS | Spring 2023

- Developed a user-friendly web application enabling users to efficiently manage and store comprehensive medication details for family members, including dosage schedules and frequency.
- Designed a website that incorporates automated real-time text message reminders for medication adherence, reducing reliance on designated applications on family members' phones by 66%.

IDetect - Face Detection and Recognition

Python and OpenCV | Summer 2022

- Developed a robust facial feature detection system by training a classifier using a Haar-like cascade algorithm, demonstrating proficiency in machine learning and computer vision techniques.
- Implemented feature vector classification and face recognition on detected faces from video frames using the FaceNet deep learning model, showcasing advanced expertise in computer vision and deep learning techniques.

COURSEWORK

Machine Organization, Data Science Programming, Computer Vision with Deep Learning, Data Structures & Algorithms, Computer Architecture, Object-Oriented Programming, Multi-variable Calculus, Web-scraping, A/B Testing, Operating Systems fundamentals, OS Resource and Lifecycle Management, building user interfaces, Cloud Monitoring, Database management, Analysis of Programming Languages, User-Interfaces and User-Experience, Android Development, Setting up Pings and Checks, Automated alerting for service Health Checks, Data Visualization, RDBMS, Performance Analysis.