

# Riteshwar Singh Brar

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## EDUCATION

*University of Wisconsin-Madison*

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

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

## SKILLS

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

## 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.