Darshan Golchha

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EDUCATION

Bachelor of Science in Computer Science and Data Science   Expected **May 2026**

University of Wisconsin-Madison · GPA: 3.8/4 (Dean's List)
- Relevant Coursework : Object-Oriented Programming, Data Structures and Algorithms, Database Management and SQL, Data Science Programming (Python), Data Science Modelling (R), Web Development, Machine Learning.

SKILLS

Java, Python, JavaScript, C, SQL, R, CSS3, JavaScript, React, Spring Boot, Django, Flask, Maven, Spring Security, REST API, MySQL, MongoDB, Google Cloud Platform (GCP), Amazon Web Services (AWS), scikit-learn, Docker, Web Sockets, Tailwind CSS, Three.js, JPA, JWT, AWS S3, Git, Unix (MacOS), Linux(Ubuntu).

EXPERIENCE

Software Developer Intern
R Systems, Noida, Uttar Pradesh, India (May 2025 – Present)
- Built and deployed a full-featured mobile chat app using **React Native**, **Twilio** Conversations, **Spring Boot**, and **GCP**, enabling one-to-one/group messaging, media sharing, and push notifications for over 1,000 users in production.
- Implemented **Redux Toolkit** and dynamic environment configs, reducing boilerplate and enabling seamless development-to-production transitions, while **improving chat performance** and navigation stability.
- Automated Android/iOS **CI/CD** pipelines with **GitHub Actions** and integrated **FCM** via custom webhooks, overcoming Twilio FCM issues and achieving 70% faster release cycles and real-time **message delivery reliability**.

Software Engineer and Machine Learning Intern
Opstree Solutions, Noida, Uttar Pradesh, India (May 2024 – August 2024)
- Built a dynamic **React** form and **Django** backend integrated with **Google Gemini LLM**, streamlining capture of 50+ infrastructure inputs and improving project accuracy by 30% while reducing manual input by 40%.
- Engineered **CI/CD** enhancements using **SonarQube, SonarCloud**, and a custom severity calculator, cutting critical production bugs by 40% and reducing manual review time by 60%.
- Implemented an anomaly detection pipeline with **scikit-learn Isolation Forest**, enabling early detection of infrastructure anomalies and improving real-time monitoring effectiveness.

Software Engineer Intern
Nucleus Software Exports Limited, Noida, Uttar Pradesh, India (June 2023 – August 2023)
- Developed Nucleopedia, a **React + Java Spring Boot** knowledge management platform, reducing employee onboarding time by 70% for 1,500+ users by streamlining internal training and information access.
- Optimized **MySQL** database design and integrated **JPA** repositories, cutting query latency by 75% and improving system responsiveness with faster search and retrieval.
- Secured the platform using **Spring Security** and **JWT**, reducing unauthorized access by 98% through robust authentication and proactive threat mitigation.

PROJECTS

Grainish — *Personal Project* (Feb 2025 – Present)
- Built a **full-stack e-commerce** platform using **React Native**, **Spring Boot**, and **MongoDB**, supporting secure authentication (Email/**Google OAuth**), shopping cart, order flow, and admin dashboard.
- Optimized backend and mobile UX by leveraging **REST APIs** and **Spring Security**, improving performance and responsiveness for 1,000+ mobile users.
- Enabled real-time product/order management through a **custom admin panel** in **React**, improving operational efficiency and user engagement by 60%.

AI Commit Risk Analyzer — *Work Project @ Opstree Solutions* (June 2024 – Present)
- Developed an integrated code review tool combining **SonarQube, SonarCloud, and LLM**s, cutting critical production bugs by 40% and enhancing review efficiency by 50%.
- Automated risk scoring via a custom **severity calculator and Git-linked pipelines** connecting the **python** servers using a **Java Spring** server**,** improving issue prioritization accuracy by 30% and reducing manual review time.
- Documented and deployed a **Master Severity Index** with real-time dashboards, increasing visibility into code health and boosting quality gate pass rates by 25%.

Infragen — *Work Project @ Opstree Solutions* (July 2024 – Present)
- Built a dynamic infrastructure design tool using **React, Django, and Google Gemini LLM**, improving infrastructure recommendation accuracy by 30% and reducing manual input by 40%.
- Enabled real-time, editable architecture generation with **visual HLD output**, enhancing project planning and collaboration across engineering teams.
- Implemented **smart context-saving and chat-driven input updates**, significantly improving user experience and reducing repeat effort in infrastructure specification.

More Info and other Projects at : https://www.darshangolchha.com/

ACTIVITIES

- Member, Wisconsin Robotics, Software Team, demonstrating strong **teamwork and collaboration.**
- Goal Keeper, Men's 7vs7 Soccer Team, showcasing **leadership** and **adaptability in high-pressure situations**.