

Kshitij Dhannoda

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SUMMARY:

Results-driven Software Engineer with a versatile skill set in Python, Golang, JavaScript, and full-stack development. Experienced in building recommendation engines, backend APIs, and frontend dashboards using modern frameworks. Worked across academic and industry projects integrating simulations, real-time APIs, and multilingual systems. Strong foundations in object-oriented programming, cloud-based deployments (AWS EC2), and cross-functional collaboration.

EDUCATION:

University of Michigan, MI

Jan 2024 - Dec 2025

Master's in Computer and Information Sciences (General)

SKILLS:

Languages: Python, Java, Golang, JavaScript, Rust, SQL, PHP.

Frameworks: React-Native, Flutter, Native-script, OpenCV, Hadoop, PySpark, Django, Next.js.

Tools: GIT, Docker, Android Studio, Microsoft Office, LaTeX, Postman.

EXPERIENCE:

Infrastructure Intern – Zoetis, USA

July 2025 - Present

- Reconstructed the Power Bi reports on Infrastructure Using the updated data.
- Built relational model for business application to server for measuring the impact of downtime on business.
- Reconstructed the Wiki page with the new data sources and updated links.

Graduate Research Assistant – University of Michigan, Dearborn

Feb 2025 - April 2025

- Deployed MATLAB simulations on AWS EC2 to handle compute-heavy models under budget constraints.
- Designed backend logic to serialize simulation outputs into JSON for lightweight frontend rendering.
- Built APIs to dynamically serve 15,000+ simulation data points for user-controlled visualization.

Research Assistant – University of Michigan, Dearborn

Nov 2024 - Dec 2024

- Supported backend simulation of reinforcement learning agents using OAIC framework for research based scenarios.
- Developed slicing logic and control pipelines for agent UE interaction in a testbed environment.
- Contributed to xApp simulation logic to help researchers model network behavior scenarios.

Software Intern – DigiQuanta, India

Jan 2023 - Aug 2023

- Designed a backend data intake tool to gather 100+ pain points from cab service users and drives via form submission.
- Processed and cleaned incoming data for stakeholder review to inform business logic development.
- Built logic to identify top user concerns and provided insights that shaped potential product decisions.

Jr Next.js Intern – Provoke Developers, India

Oct 2022 - Nov 2022

- Translated Figma designs into responsive web pages using Next.js, increasing online engagement.
- Consolidated UI components into a unified app with Git version control to support feature maintenance.
- Optimized layouts for responsiveness across 95% of screen sizes, improving accessibility.
- Boosted user satisfaction by applying modern frontend best practices and mobile-first design principles.

PROJECTS:

Recommendation System Project – Python, Pandas, Matplotlib, Jupyter Notebook

Jan 2024 - July 2024

- Designed and deployed a scalable recommendation system to suggest relevant items based on category and price range.
- Processed and analyzed over 1.4 million data points to optimize accuracy and response times.
- Leveraged pandas and Matplotlib for fast data filtering and meaningful visualizations.

Multi Lingual Dictionary – Django, Python, HTML/CSS, Bootstrap, SQLite

March 2023 - Sept 2023

- Built a web-based multilingual dictionary supporting real-time word translations across multiple languages.
- Implemented Django models for efficient data retrieval and robust query handling.
- Designed an intuitive search interface to enhance usability for a diverse user base.