

KEERTHANA VEGESNA

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SUMMARY

Computer Science senior with hands-on experience in software engineering, cloud technologies, and front-end development. A track record of building efficient, scalable applications and data-driven solutions. Eager to apply my skills in a role where I can continue to grow, solve complex problems, and contribute to impactful projects.

EDUCATION

PURDUE UNIVERSITY

West Lafayette, IN

Bachelor's of Science, Computer Science

Expected Graduation: Dec. 2024

- **Minors/Certificates:** Entrepreneurship and Innovation Data Science, Mathematics
- **Coursework and Skills:** Data Structures, Algorithms, Data Mining, Machine Learning, Software Testing, Computer Architecture, Systems Programming, Operating Systems, C++, Java, Python, React, MongoDB, MySQL, Unix, R, Javascript, AWS, GDB, JUnit Testing, Jira, Github, Typescript

EXPERIENCE

PURDUE JOHN MARTINSON HONORS COLLEGE

Jan. 2024 - Present

Web Developer

West Lafayette, IN

- Designed and implemented user-friendly, functional websites for mobile and desktop platforms ensuring responsiveness and cross-browser compatibility.
- Maintained and updated 40+ pages for Purdue Honors College, ensuring accessibility for all users.

CUMMINS, INC

Jun. 2022 - Aug. 2022

Software Engineering Intern

Indianapolis, IN

- Improved storage processing protocols for existing applications, reducing system downtime using AWS S3.
- Implemented AWS CloudWatch Alarms and Lambda Functions, to monitor and predict engine and equipment health.
- Automated data transfer flow across departments, reducing errors and increasing transfer speed.

THE DATA MINE - MERCK

Aug. 2021 - May. 2022

Undergraduate Data Science Researcher & Teaching Assistant

West Lafayette, IN

- Designed an end-to-end solution architecture for test tube tracking efficiency between labs in the plant.
- Utilised AWS S3 and Databricks to set up a backend database for analysis, enabling data-driven decision-making for the plant.
- Provided assistance to 600+ students in The Data Mine, delivering guidance on R, Python, Bash, Unix and SQL.

PURDUE COMPUTER SCIENCE DEPARTMENT

May. 2021 - Aug. 2021

Undergraduate Teaching Assistant

West Lafayette, IN

- Mentored and guided 45+ incoming computer science students, facilitating their understanding of object-oriented programming and Java, conducting labs, office hours and workshops resulting in improved learning outcomes and easier transition for freshmen into university.

PROJECTS

The Eras Tour Tracker - A tracker for venues, openers, and song analytics for Taylor Swift's Eras Tour.

- **Technologies:** Geo-coded data, React, Next.js frontend and OpenStreetMaps API.
- **Features:** Dynamic visual representation of tour locations, chronological data display, venue information, setlists, openers, and multi-device accessibility.

Investogram - An educational app for beginners to learn about investing using play money in a simulated stock market.

- **Technologies:** MongoDB Backend, React, Next.js frontend.
- **Features:** Global stocks page, transactional stats, personal dashboard with metrics, leaderboard for incentives.