

Hari Sai Harish

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EDUCATION

Purdue University

West Lafayette, IN

B.S. in Computer Science and Data Science, Minor in Economics

Aug 2024 – May 2027

- Scholarships & Recognitions: DS Outstanding Freshman of the Year, Dean's List (2x), Semester Honors (2x)
- Coursework: DSA, Computer Architecture, Discrete Math, Linear Algebra, Calculus, Statistics (GPA: 3.94)

EXPERIENCE

Backend Engineer

Jun 2025 – Present

Concrete Engine: Express.js, MongoDB, GCP, Docker

West Lafayette, Indiana

- Developed a comprehensive observability infrastructure for High-Performance Computing rigs, to provide real-time system/health performance across 50+ distributed nodes. Reduced incident detection time by over 40%.
- Created an automated secure pipeline for dynamic environment creation, allowing users to clone GitHub repos, by auditing Dockerfiles, building container images, and uploading artifacts to Google Cloud for future HPC tasks.

Software Engineer Intern

Feb 2025 – May 2025

Vertikal X: Nest.js, PostgreSQL, GraphQL, Docker, Python, HuggingFace

Remote - Austin, Texas

- Drove accelerated full-stack development, in direct collaboration with the Co-Founder.
- Engineered a proprietary scoring algorithm to track athlete performance, social presence, and predict future stars.

Software Engineer Intern

Jun 2024 – Jul 2024

Tarnea Technological Solutions Ltd.: OpenCV, Dlib, Flask, NumPy, Deep Learning Models

Bengaluru, India

- Built a real-time engagement tracker that detects and analyzes customer interactions with advertisements.
- Designed algorithms to track and categorize faces, eyes, and customer demographics with 95% accuracy.

Software Developer Intern

Jun 2023 – Sep 2023

SmartAxiom Inc.: TypeScript, Angular.js, Next.js, MongoDB

Remote

- Developed a live tracker to collect vital data from heat sensors and GPS monitors on shipments.
- Implemented a parametric filter to display this data, enhancing their website traffic by 70%.

PROJECTS

Pathwise | *Next.js, Google Cloud Platform, Vertex, BigQuery, NLP, Firebase*

Aug 2025 – Present

- Project leader for Google Developers Group @ Purdue.
- Heading development for a web-app that uses AI to personalize and enhance students' college experience by recommending courses, clubs, events, and research labs, that have worked for like-minded seniors.

ShortestRoot | *React.js, Google Maps API, SQLite*

Jan 2024

- Led the creation of this platform to streamline fair and efficient meet-up planning in foreign/busy cities.
- Devised innovative triangulation algorithms to calculate optimal urban-transit routes based on real-time traffic.

RESEARCH EXPERIENCE

ML for Theatrical Prop Navigation and Directionality Directions

Feb 2025 – Present

Purdue University, under Prof. Rich Dionne, Dean of Theatre

West Lafayette, IN

- Developing state-of-the-art CV models for extracting prop locations and stage layouts from theatrical blueprints.
- Leveraging YOLOv8 and Hough Transform models to facilitate human, object, and path detection.
- Implementing reinforcement learning-based navigation for dynamic, sentient movement of autonomous stage props.

ACCOLADES

Oakridge Codefest 2024: 1st place in India's largest overnight hackathon (trophy + 30,000 INR cash prize).

TisbHacks 2023 National Hackathon: 1st place in Competitive Coding (gold medal + 5,000 INR cash prize).

iCode Global Hackathon 2023: Ranked 38th out of 2.15 million participants (gold medal).

SKILLS SUMMARY

Languages: Bash, C/C++, Dart, Java, JavaScript, TypeScript, Python, R, SQL

Frameworks: (Next, Express, React).js, Flask, REST, Flutter, Docker, Firebase, MongoDB, SQL, PostgreSQL, Unity