

Vikhyat Jagini

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EDUCATION

Purdue University

Bachelor of Science in CS Honors, Minor in Math & Certificate of Entrepreneurship

West Lafayette, IN

Aug. 2022 – May. 2026

TECHNICAL SKILLS

Languages: Java, Vue, Python, C, C++, JavaScript, TypeScript, Dart

Technologies: Spring, React, CSS, Node.js, AWS, Flutter, Firebase, MySQL, Bash, Git, Linux, Express, Axios

EXPERIENCE

Software Engineering Intern

Samsung Semiconductor

May 2024 – Aug 2024

Austin, TX

- Engineered a secure full-stack application using Vue.js, Spring Boot (Tomcat), and Oracle DB, with RBAC and encrypted CRUD operations based on wafer data and client requests.
- Built ORM infrastructure in Spring Boot with JPA and Criteria Builder for dynamic query generation.
- Designed an interactive frontend in Vue 3/Vuetify, integrating with Spring backend via Axios.

Undergraduate Data Science Researcher (Webee)

Purdue University

Aug 2022 – May 2023

West Lafayette, IN

- Collaborated with 10+ members to develop an application detecting anomalies in machines.
- Explored relationship between acceleration, velocity and vibration of machines when damaged.
- Preprocessed data in Python and implemented GMM and SVM models for anomaly detection.

Undergraduate Teaching Assistant - CS 250

Purdue University

Aug 2024 – Current

West Lafayette, IN

- Conducted office hours, lab sessions and lectures for the Computer Architecture course.

PROJECTS

Custom UNIX Shell Project | C++, C, Lex, Yacc, Bash, Unix, OOP

Feb 2024 – April 2024

- Employed appropriate system calls to pipe executables, manage processes, and handle environment variables.
- Leveraged Lex and Yacc for parsing, and applied OOP principles to store, manage, and execute various list commands.
- Integrated advanced features including subshells, wildcards, interpolations, conditional statements, and loops.

Air Sync(Purdue Boilermake Hackathon) | Python, OpenCV, Concurrency, Media Pipe, ML

Jan 2024

- Developed a Python application to capture hand gestures and voice commands & a Chrome extension to translate them into effects in the browser such as navigation, scrolling, volume adjustment, etc.
- Utilized MediaPipe to track fixed landmark points on the hand and map them to intuitive gestures & integrated OpenCV for video processing and PocketSphinx for speech recognition.
- Established real-time communication between the Python app and Chrome extension via web-sockets.

EzFunds | React, Node JS, HTML, CSS, MySQL, AWS

Oct 2021 – May 2023

- Implemented a full-scale net-banking application with an interactive login/signup page, dashboard, profile, balance enquiry & transfer funds features.
- Enhanced proficiency by coding from scratch, minimizing reliance on libraries for deeper understanding.
- Deployed on AWS to gain hands-on experience in cloud deployment & infrastructure management.

COURSEWORK

Ongoing: Data Mining and Machine Learning, Web Information Search And Management, Software Engineering I

Completed: Systems Programming, Competitive Programming I, Information Systems, Data Structures, Real Analysis, Computer Architecture, Object Oriented Prog, Programming in C, Multivariate Calculus, Microeconomics

LEADERSHIP, CLUBS AND ACHIEVEMENTS

Clubs: Purdue Hello World Hackathon(Dev Lead), Purdue Student Government(Director in Strategic Technology Committee), Purdue Badminton Club, ISA, AIF, Global Science Partners, Launchpad(Mentor)

Achievements: ML - Certified in Supervised ML (Stanford NG Andrew), Trinity Communications Exam - Distinction