Shruti Goyal

shisshruti@gmail.com | +1 (765)-409-3568
West Lafayette, IN
Github: github.com/shisshruti | *Website*: shisshruti.github.io
LinkedIn: linkedin.com/in/shruti-goyal-11072002

EDUCATION

2020-2024 **B.S. in Computer Science Honors, Purdue University**, IN – 47907, US **GPA:** 3.96
Concentrations: Algorithmic foundations, Machine Learning, Systems Software, Computer Graphics
Minor in Mathematics, Certificate in Data Science, Honors College, Purdue University

PERSONAL PROJECTS

2023 **Of A Feather (NodeJS, Express, Firebase, React, REST API, GCP)**
- Developed the backend for a group-finding application including a recommendations algorithm for personalized content feed, the creation of custom posts using rich text and multimedia, group merging and subgroup creation, and regular GCP powered custom email digests

LANGUAGES AND TECHNOLOGIES

- Java, Python, C, C++, HTML5, JavaScript, R, NodeJS
- AWS, Flask, CSS, SQL, Git, GraphQL, Spring, numpy

EXPERIENCE/ ORGANIZATIONS

2023 **Software Development Engineering Intern, Amazon.com Inc**
- Developed a metric propagation system in the Your Orders service of the retail app to help determine the workflow and debug team issues.
- Built a client library package to integrate with the Your Orders service to centralize and automate the process of calling our service, parsing API responses, and generating business models, reducing the effort needed to do so for clients by 98.4%.

2022 **Software Development Engineering Intern, Amazon.com Inc**
- Independently developed a full-stack native AWS application to make downstream calls to non-native APIs for the Your Orders page on Amazon.com, thus spearheading the team's efforts to migrate to NAWS.

2021-2022 **Data Engineering student Consultant, The Data Mine, Purdue University and Merck Research Labs**
- Created a voice-controlled application for researchers in lab with speech-to-text conversion to fill out lab reports and record measurements spoken verbally to allow for completely hands-free lab work.

2022-Present **Undergraduate Teaching Assistant, Purdue University**
- Taught Introduction to OOP, Systems Programming, and Analysis of Algorithms- leading labs, conducting voluntary office hours, helping in the creation of assignments and quizzes, as well as grading

2021-2023 **Research Assistant,** Climate and Extreme Weather Laboratory, Purdue University
- Quantitatively analyzed and visualized the impact of the Gulf of Mexico on precipitation in the US using Python and R by comparing data from a CAM5 model of the US without the Gulf of Mexico with real-world data to aid the larger goal of better understanding storm-formation over the US.

2020-2021 **Undergraduate Researcher,** *Het Nieuwe Instituut,* Netherlands; Honors College, Purdue University
Designed a series of interactive art exhibits that focus on the visualization and sonification of plant data using JXCT Soil NPK sensors and KeeYees Soil Moisture Sensor Modules to collect data and utilize data analytics to discern the plants' needs (low water level, low nutrient level, etc)

2020 - 2021 Selected member, **R1 research Learning Community**, Purdue University
- Independently authored a research paper studying the impact of different kinds of music on productivity in different academic tasks; presented at the Purdue Undergraduate Research Conference

LEADERSHIP/ AFFILIATIONS

- Head of Philanthropy Committee**, Computer Science Women's Network**
- **Phi Kappa Phi** Honor Society
- Officer**, ACM SIGAI**