BHARATH JYOTHI

THIRD-YEAR UNDERGRADUATE

CONTACT	WORK EXPERIENCE	
765-409-3305	Software Engineering Intern	
bhj224@lehigh.edu	VRi Barcelona, Spain	May 2022 - July 2022
linkedin.com/in/bharathjyothi	 Responsible for establishing a consistent server-side connection with potential clients on the DICOM file-loading service Implemented a caching mechanism that avoided the re-reading and processing of the same DICOM by storing the processed data in memory or on the hard disk Used multi-processing to parallelize the computation across multiple cores or nodes, significantly reducing the processing time by about 10 minutes Implemented unit testing for new API to ensure code met quality standards before deployment and usage by medical partners 	
Bethlehem, PA		
EDUCATION Lehigh University		
B.S. in Computer Science and Business	Biomedical Imaging Research Assistant	
Minor in Data Science Minor in Economics August 2020- Expected December 2023 GPA: 3.50	Lehigh University Bethlehem, PA Developed cancer cell detection UI to differentiate betwee static images and flow videos, creating compatibility with	
SKILLS Java	 models including CNNs and RNNs Using binary static image classification, cells were able to be identified with 99% confidence Incorporated the YOLO object detection module to create a model that was both computationally efficient (~3-second load time with GPU) and accurate 	
Python		
C	PROJECTS	
C++	Lutron Permit Data Analytics	January 2023-Present
SQL R	 Ingested, cleaned, and standardized APIs for Lutron clients based on contractors in major cities in order to install their high-end light switches Implemented dynamism to the data ingestion step which allows for continual retrieval of queried data whenever an API is updated Created a dashboard using AWS cloud features (Glue, S3, and Athena) to visualize lighting solutions based on accumulated data from real-time APIs 	
Rust	Soil Sense	April 2023-Present
Git A C H I E V E M E N T S April 2023	 Developed a web application using Google Cloud Platform's App Engine to examine the problem of soil contamination due to high phosphate levels Utilizes the Google Maps API to map the land coverage of in-soil phosphate, allowing farmers to monitor their soil for contamination Provides real-time monitoring of soil health using matplotlib visualiations, allowing farmers to make data-driven decisions that will ultimately lead to more sustainable farming practices. 	
Google Hack's for Change Hackathon (1st place) April 2022	LEADERSHIP	
Undergraduate Research Symposium (1st place)	Public Relations Chair, South Asian Student Association	May 2022 - Present
April 2021 Dorothy and Stabler Award	 Maintained relationships with external and internal organizati greater Lehigh Valley, promoting volunteer opportunities with 	
LANGUAGES	Gryphon (Residential Assistant)	August 2021 - Present
English English	 Fostered an inclusive community among 30+ residents in the residence hall by conducting programs that encourage diversity and collaboration 	
	Global Citizenship Program Certificate May 2021 - Present Investigated diversity and ethical issues in local communities, finding solutions with respect to an inherent global perspective	
Spanish		