

YASH VENKATESH BITLA

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Objective: Software Engineer full-time roles starting January 2024

EDUCATION

University of Southern California , Los Angeles, CA	Jan 2022-Dec 2023
Master of Science in Computer Science	CGPA: 3.55/4
Courses: Artificial Intelligence, Analysis of Algorithm, Web Technologies, Information Retrieval	
University of Mumbai , Mumbai, India	Aug 2017-May 2021
Bachelor of Engineering in Computer Science	CGPA: 4/4
Courses: Data Structures, Machine Learning, Object Oriented Programming, Database Management	

WORK EXPERIENCE

SoFi (Galileo Financial Technologies), USA, Software Engineer Intern	May 2023-Aug 2023
<ul style="list-style-type: none">Enhanced fraud detection capabilities by implementing a program-level configurable feature for identifying name mismatches in incoming ACH transactions, preventing unauthorized transactions.Developed the name mismatch service in shadow mode and processed incoming ACH transactions within 1% of the existing time while collecting valuable data for analysis and insights.	
Integrated Media Systems Center Lab, USC, Graduate Research Assistant	May 2022-May 2023
<ul style="list-style-type: none">Research focused on Object Detection and Counting Challenges in Real World Street Monitoring: Case Study of Homeless Encampments under Dr. Seon Kim. (Accepted at ICIP, 2023)Adapted the YOLOv5 model to detect homeless encampments in an occluded, illuminated etc noisy environments with a precision of 0.75 and counting error ratio of 0.13.Implemented CSRT, KCF, and MIL tracker for tracking multiple objects for a non-static camera.	
Development Monitors LLC, Arlington, USA, Machine Learning Intern	Jun 2021-Dec 2021
<ul style="list-style-type: none">Trained a Feature Pyramid Network on geospatial satellite imagery to detect building roof types (mud, metal, clay) and improved accuracy by 146%.Implemented Machine Learned Regularization and Polygonization of Building Segmentation Masks (Link) to produce visually pleasing building outlines.Created shapefiles with roof detection coordinates and rendered them on web-based community mapping software.	
Young Women's Christian Association, India, Software Engineer Intern	Jan 2020-Oct 2020
<ul style="list-style-type: none">Identified problems in YWCA's event management and led an android development team that built a mobile application (Link) to improve their operations.Integrated dynamic lists with recycler view to display different events and created an admin control page.Boosted click rates by 133% and increased event registration by 200%.	

TECHNICAL SKILLS

- Programming Languages - Python, Java, C++, HTML, CSS, JavaScript, SQL
- Frameworks & Tools - PyTorch, Docker, Kubernetes, Flask, ReactJS, AngularJS, NodeJS, Rest APIs, Git
- Database and Cloud - MongoDB, MySQL, Hadoop, Firebase, GCP, AWS, PostgreSQL

PROJECTS

Event Finder Application (Link)	Feb 2023-Mar 2023
<ul style="list-style-type: none">Developed a web page using AngularJS, NodeJS and Flask that interfaces with the Ticketmaster API to retrieve event information based on user search input.Improved event search functionality by integrating Google Maps and IPinfo.io geocoding APIs.Incorporated a search radius and real-time user location tracking to provide more relevant results.	
Drone Route Planning – ISRO (Smart India Hackathon) (Link)	Jul 2020-Aug 2020
<ul style="list-style-type: none">Designed an algorithm to plan most efficient drone route and schedule, considering multiple constraints like geography, drone battery, fuel stations, and obstacles.Performed simulation and animation using ReactJS, HTML, CSS and Google Map API to visualize routes.	

LEADERSHIP & AWARDS

- Founding Team Member of StraysCue**, a Non-Profit Organization for animal welfare that secured a grant of \$2,00,000 in technical credits from Xartup fellowship.