Sneha Mahapatra

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EDUCATION

University of Massachusetts, Amherst, MA   September 2021 - May 2023
Masters of Science in Computer Science

Purdue University, West Lafayette, IN   August 2017 - December 2020
Bachelors of Science in Computer Engineering

EXPERIENCE

Software Developer
Superluminal | May 2023 - Present

- Developed desktop version of clients medical web application, broadening user accessibility by 100%.
- Architected and prototyped feature to allow users to record website for demo, debugging, and advertisement purposes including decreasing time for debugging by 60%.
- Optimized backend functionality by adding services and controllers, seamlessly integrating them into the API for 10,000 clients.
- Increased efficiency for triaging by 350% by integrating third-party tools and engineering services for comprehensive logging that is compatible with Azure cloud services.
- Skills Acquired: C#, .Net, SQL, SQLite, Azure.

Application Developer Researcher
BioNLP | September 2021 - May 2023

- Spearheaded development of iOS mobile application to help low income users find government benefits.
- Integrated Mapbox software library, and Firebase to help users find tailored resources close to them in 45 states.
- Fine tuned BERT NLP model to extract information from web scraped resources to create a tailored search results for users that includes at least 5 results per search.
- Devised web crawling programs to find resources and create a database of resources from over 1000 google search results.
- Skills Acquired: iOS mobile development, Firebase, Mapbox, Natural Language Processing.

Software Engineering Intern
Ford Motors - Global Data Insight Analytics | April 2022 - September 2022

- Enhanced data collection by developing endpoints in Spring Boot for an API to convert manual data entry to an automated one.
- Implemented SQL queries for data manipulation.
- Programmed Python Script to call API Endpoints for data collection.
- Designed Mobile Application for Ford vehicles in 2 Day Hackthon Challenge.
- Skills Acquired: Spring Boot, Java Development, Jenkins, Hadoop, SQL, Git, Pyspark, Python Scripting and Development, 42Crunch, RESTful API.

PROJECTS

Software Developer
Machine Learning for Child Rescue | January 2022 - July 2022

- Produced 2 React-Native Applications that aid law enforcement of different departments to canvas trackers and evidentiary material.
- Integrated MongoDB with Fast API backend to increase run time by 70% and storage capacity.
- Skills Acquired: Expo, React-Native, MongoDB, Fast API, Typescript, Javascript, RESTful API (React).

Machine Learning Engineer & Software Developer
Senior Design | January 2020 - December 2020

- Architected Real-Time ASL translator app using Computer Vision for Senior Design with 94% accuracy for static gestures and 92% accuracy for movement gestures.
- Developed iOS app integrating Google's Mediapipe and ASL translator ML model with 9 user selectable categories.
- Spearheaded the senior design team as team lead to develop, design, collect data and maintain project for 1 year.
- Skills Acquired: Computer Vision Model Development, iOS Development, Integrating CV ML Model, Project Manager.

Researcher
Continuous Analysis of Many CAMeras | March 2018 - August 2019

- Built web scraper that parsed different live cameras to analyze information about the public and decipher mask wearing during COVID-19 pandemic over 5,000 texts.
- Implemented 30,000 network cameras in 110 countries help mitigate COVID-19 infection.

TECHNICAL SKILLS

Programming languages: Python, Java, C#, Matlab, C++	**Web Technologies:** JavaScript, React Native, Node.js
ML/AI: Pytorch, Numpy, Pandas, Tableau	**Cloud:** Azure
Miscellaneous: SQL, Git, Windows, Jira, Agile	