

EDUCATION	
University at Buffalo, The State University of New York	Aug 2023 – Jun 2025
Master of Science in Computer Science and Engineering	
Coursework: Machine Learning, Analysis of Algorithms, Data Intensive Computing, Computer Security	
MIT World Peace University	Jul 2017 – Oct 2021
B.Tech in Electronics and Communication Engineering	GPA: 8.66/10
Coursework: Data Science, Fuzzy Logic and Graph theory, NLP, Neural Networks, Pattern Recognition	

EXPERIENCE	
Assistant Fullstack Developer, University at Buffalo (Python, React, SQL)	Sep 2023 – present
• Spearheaded the modernization of REDfly’s legacy PHP platform by architecting a responsive web infrastructure leveraging Python and JavaScript, enhancing site responsiveness and user engagement.	
• Streamlined data retrieval process by integrating GraphQL APIs and utilizing SQLAlchemy boosting backend efficiency by 30%.	
Software Development Engineer II, Statiq (Python, SQL, MongoDB, Redis, AWS)	Jan 2021 – Jun 2023
• Led a cross-functional team of four in developing a scalable, efficient OCPP server for EV charging stations, integrating WebSockets and FastAPI, which boosted project delivery efficiency by 45%.	
• Remodeled the WebSockets server, transitioning it from a WSGI to an ASGI model using FastAPI and deploying it on Uvicorn, reducing the load on server by 90%.	
• Deployed an interactive dashboard for custom notification using AWS lambda and Python, enabling the marketing team to enhance client interaction and increase the EV owner base by 17%.	
• Established direct link between mobile app (HTTP) and WebSockets server via AWS SQS (Simple Queue Service), reducing administrative overhead.	
• Designed and constructed a MySQL database architecture to integrate the CSMS (Charging Station Management System), MobileApp, and WebSockets server.	
• Incorporated scalable, asynchronous payment APIs using Python, contributing to a 21% increase in overall transaction rate.	
• Integrated Sentry API and standardized log format, increasing the internal team’s issue resolution and debugging efficiency by 38%.	
• Collaborated with the CTO to formulate and prioritize technical strategies, contributing to successful Series A funding of \$25.7M.	

PROJECTS	
Netflix Film Rating Prediction Analysis	
• Developed a predictive model using machine learning algorithms to analyze key success factors for streaming media, focusing on attributes like genre, actor influence, and audience ratings to forecast film performance.	
• Employed Decision Tree, Logistic Regression, and Random Forest regression techniques to analyze a Kaggle dataset, creating a model that effectively identifies high-potential content for streaming platforms with notable accuracy.	
Virtual Library Management System	
• Created a web-based Library Management System using Python, React, and MySQL, streamlining book management with features like advanced searching and real-time availability checks.	
• Enhanced intuitive features like book activity tracking and efficient search filters, improving librarian workflow and user experience.	
Optical Character Recognition using Google Cloud Platform	
• Developed an OCR system technology using Google Vision API to detect and translate it into different languages.	
• Engineered an image storage workflow on the Google Cloud Platform and utilized the OCR module of the API to extract the text.	
Image Classification using VGG-16	
• Implemented VGG16 model using TensorFlow and NumPy for animal classification on a Kaggle dataset, achieving 95% accuracy.	
• Extended the classification framework leveraging LSTMs and RNNs to detect and analyze animal behavior patterns.	

TECHNICAL SKILLS	
Languages: Python, C++, Embedded C, SQL, Javascript, HTML/CSS	
Frameworks: GraphQL, FastAPI, React, WebSockets	
Developer Tools: Amazon Web Services (AWS), Git, MySQL, MongoDB, Redis, Elasticsearch, Postman	

RESEARCH EXPERIENCE	
[1] Chaitanya Yeole, et al. (Jun 2021) Deep Learning Techniques for Human Activity Recognition, IJISRT	

AWARDS	
National Robocon 2020, ABU Robocon: All India Rank 1	Jun 2020
• Engineered omni-directional robots with an ARM Cortex M4 and advanced sensor integration, achieving tasks within 90 seconds.	
National SAvE 2019, NIOT: All India Rank 3	Jan 2019
• Programmed an AUV using NVIDIA Jetson TX1 integrating PyKinect and ROS libraries for task-specific image processing.	
National Robocon 2018, ABU Robocon: All India Rank 2	Mar 2018
• Devised a coordinate-mapping equation for a robot with rotary encoders, enabling precise autonomous movement to any location.	