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EducationNorth Carolina State University, *Raleigh, NC***Master of Computer Science.**

Aug 2024 - May 2026

Courses: Software Engineering, Artificial Intelligence 1, Advanced Robotics, Neural Networks.

GPA: 4.0/4.0.

SASTRA Deemed University, *Thanjavur, India***Bachelor of Technology** in Computer Science and Engineering.

July 2018 - July 2022

Dean's list: Top 10% 2019 - 2020, Top 2% 2018 - 2019.

GPA: 9.22/10.0.

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Skills

Technologies: C++, C, Python, JavaScript, Java, XML, Bash, Lua, React, Node, Flask, Django, HTML, CSS.

Databases: NoSQL, MySQL, MongoDB.

Frameworks / Libraries: Mongoose, OpenCV, Pandas, Keras, TensorFlow, NumPy, ROS.

Tools: GIT, Docker, Azure, VS Code, Slack, NeoVim.

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Work ExperienceGrader, Advanced Robotics, North Carolina State University, *Raleigh, USA*

Jan 2025 - May 2025

- Modeled Triton bots with ROS, contributing to the creation of schematics for 10 bots deployed in final student projects.
- Designed a workflow with UNIX shell scripting to cut down the software setup of each bot by 60%.

Associate Technical Consultant, **Salesforce**, Inc., *Bengaluru, India*

Aug 2022 - July 2024

- Optimized and extended API integration in Java for retrieving CIBIL scores, increasing processing capacity by 90%.
- Spearheaded a Go-Live initiative to integrate the Salesforce customer application with a **React Native** app, driving a 20% increase in multi-platform user adoption and enabling offline functionality.
- Engineered a robust database object creation system leveraging **REST API** payloads from custom React Native App, improving data processing speed by 50%.
- Optimized **Azure CI/CD** pipeline with a **GIT** script, cutting deployment time by 40% through selective package deployments.
- Automated the creation of 40 Salesforce workflows and metadata files using Python scripts and Regex, reducing manual effort by 67%.

Associate Technical Consultant, Intern, **Salesforce**, Inc., *Bengaluru, India*

Feb 2022 - Aug 2022

- Developed a comprehensive web portal with **ReactJS** for over 50 million Fintech bank customers, streamlining online KYC processes to enhance user experience and ensure 100% regulatory compliance.

Research Assistant, Intelligent Systems Group, *SASTRA Deemed University, India*

Feb 2021 - Feb 2022

- Created novel models using TensorFlow in Python for video anomaly detection, achieving 94% AUC score on the UCSD Ped 2 dataset.

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Projects**Web development:** Designed and implemented a full-stack book-keeping application with a React-based frontend for multi-platform support; managed pagination and CRUD operations using **Node.js** (Express) connected to a **MongoDB** cloud database.**Computer Vision:** Built an image processing tool using OpenCV in Python to enhance text clarity during live video streaming; leveraged an open-source live-streaming Android application and integrated the YOLO model to detect and remove text obstructions in real time; submitted the project to the Google Solution Challenge 2021 as part of a team effort.**Workflow customization:** Customized Neovim by editing 'init.lua' to enhance developer productivity; Created custom key bindings, auto commands, and plugins to streamline workflow.

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Publications

## Computer Vision

- "Object-centric and memory-guided network-based normality modeling for video anomaly detection", SIVP: Boosted model performance by 50% and AUC scores by 1%.
- "Residual Spatiotemporal Autoencoder with Skip Connected and Memory Guided Network for Detecting Video Anomalies", NPL: Enhanced AUC by 3% on LV dataset via spatio-temporal autoencoder fusion.

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Extracurricular

Interests: Soccer, Gyming, Video games.