

Jayanth Vunnam

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Education

University of Colorado at Boulder

Master of Science in Computer Science, GPA: 3.5/4.0

August 2024 – May 2026

Colorado, United States

Chaitanya Bharathi Institute of Technology

Bachelor of Engineering in Computer Science and Engineering. GPA: 8.45/10

August 2018 – June 2022

Hyderabad, India

Coursework: DBMS(Databases), Object Oriented Programming, Analysis of Algorithms, Computer Networks, Operating Systems, Computer Vision, Machine Learning, Neural Networks and Deep Learning, Software Engineering.

Skills

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL, C, C++.

Technologies: Node.js, Express.js, AWS Lambda, AWS DynamoDB, AWS CloudWatch, AWS S3, Reactjs, MS Office, MySQL, MongoDB, Postman, Splunk, New Relic, Logging, Troubleshooting, Jest, CI/CD, Jenkins, Linux, REST API, Git, GitHub, JIRA, Confluence, BitBucket, Django, TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, NumPy, Pandas, Software Development.

Work Experience

Advance Auto Parts

Associate Software Developer

Hyderabad, India

July 2022 – August 2024

- Contributed to the development of an e-commerce website and mobile app back-end and implemented **REST APIs** using **Node.js, Express.js, TypeScript, JavaScript, and AWS** enhancing functionality and user experience.
- Optimized backend performance with **AWS Lambda and DynamoDB, AWS S3**, reducing API response time by 30%.
- Configured 45+ automated alerts in **New Relic and AWS CloudWatch** for real-time anomaly detection, reducing incident response time by 50%.
- Played a key role in website maintenance by troubleshooting issues using **Splunk** and collaborating with cross-functional teams in an Agile environment to deliver performance enhancements, improving system reliability by 25%.
- Developed end-to-end test cases using **Jest** through Test-Driven Development (TDD) ensuring code robustness and increasing test coverage from 60% to 85%.

GE Appliances

Digital Technology Intern

Hyderabad, India

January 2022 – July 2022

- Enhanced Brilliant Factory Application, which tracks manufacturing plant operations, detects issues in real time, and monitors employees located at Louisville, Kentucky.
- Implemented new features and optimized code using HTML, CSS, and JavaScript, reducing data latency from 5-7s to 2s.
- Conducted an in-depth analysis of 5+ RPA tools and selected **UI Path** to automate the testing process for the Brilliant Factory suite, reducing the manual testing time by 30%.

Accomplishments

- Recognized with the 'Silver Medal' for Academic Excellence at CBIT Institute Day, 2018.

Projects

Lip to Speech Synthesis

- Built a DL model with **CNN, AlexNet, and LSTM** to generate speech and text from videos, achieving an accuracy of 80%.
- Improved accuracy by training on 1,500 video clips to detect lip movements and validating on muted videos.

Pneumonia Prediction using X-rays

- Designed a diagnostic deep learning model from scratch on a vast medical dataset of around 8000 images and utilized pre-existing models such as **VGG19 and ResNet-50**, achieving accuracy of 95%.

Covid-19 New Case Prediction and Recovery Rate across the World and India

- Engineered a predictive model to forecast COVID-19 cases, recoveries and deaths worldwide and at the state level in India for the next 10 days, achieving 98% accuracy, utilizing Python, TensorFlow, and ML models like polynomial regression and SVMs.
- Integrated real-time data retrieval from the Johns Hopkins website through API to improve accuracy by 25%.

Crime Grievance Cell

- Created an application with **HTML, CSS, JavaScript, Python, and Django** that enables online crime reporting, complaint tracking, and criminal record management 24/7, improving accessibility and efficiency for the public and authorities.