Eswar Talasila

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EDUCATION

North Carolina State University *Raleigh, NC*
College of Engineering Junior *Expected:* ***May 2026***
B.S. in Computer Science | Concentration in AI

- **GPA**: 3.8 / 4.0
- **Relevant Coursework**: Software Engineering, Data Structures and Algorithms, Operating Systems, C and Software Tools, Software Development Fundamentals, Discrete Mathematics

EXPERIENCE

Software Engineer Intern
Pioneer Quest Solutions ***Jan 2025 - Present***

- Engineered and deployed 3 full-stack features using React and Spring Boot, reducing page load times by **35%** and improving user engagement metrics
- Implemented automated testing protocols achieving **92%** code coverage, resulting in a **40%** reduction in post-deployment issues
- Optimized database queries and API endpoints, cutting average response time from 2.5s to 0.8s across high-traffic services
- Collaborated with a team of 6 developers to refactor legacy codebase, aligning with business strategy initiatives and resulting in **45%** improved system performance

Website Maintenance Assistant ***June 2021- Sep 2021***
Gatik Junior College

- Spearheaded a team of **7** students to design and implement new features for the school website leading to **25%** increased traffic over three months
- Implemented **HTML** and **JavaScript** to develop new front-end features, improving user engagement by **20%**
- Headed the optimization of site performance leading to a **27%** increase in site responsiveness
- Executed rigorous testing using developer tools, identifying and resolving bugs, reducing user-reported issues by **23%**

PROJECTS

ESTVP (Earth Surface Temperature Visualization Platform) ***Nov 2024***

- Spearheaded the development of an advanced machine learning model utilizing **PyTorch** to forecast global surface temperatures, achieving predictions based on **90 years** of historical climate data
- Designed a robust web-based visualization system using Plotly.js with integrated choropleth mapping capabilities
- Pioneered efficient data processing pipelines using **Pandas** and **NumPy** to optimize the handling of large-scale climate datasets efficiently

User Activity Analytics Platform ***Oct 2024***

- Engineered a sophisticated user activity tracking system using Java, leveraging custom data structures and algorithms to process and analyze large-scale log data with optimized time complexity
- Designed custom map-based data structures and sorting algorithms, achieving efficient log entry processing and real-time activity analysis
- Developed robust reporting functionality to generate actionable insights, including user behavior patterns, temporal analysis, and activity frequency metrics
- Devised comprehensive unit testing with **100%** method coverage and **>95%** line coverage, ensuring high code quality and reliability

Weather Data Analyzer ***May 2024***

- Created a **Python** script to analyze and visualize historical weather data for 3 cities
- Executed data parsing from CSV files, performing statistical analysis on **1,000+** weather records
- Created visualizations using **matplotlib**, revealing **5-year** trends in temperature and precipitation

SKILLS

- **Languages:** Java, Python, C, JavaScript, SQL, HTML, CSS, YAML
- **Frameworks/Libraries:** ReactJS, NodeJS, Spring Boot, PyTorch, NumPy, Pandas, DevOps
- **Software:** Git, Postman, VS Code, Eclipse IDE, Jenkins
- **Data Analysis/Visualization:** SciKit-Learn, Matplotlib, SciPy
- **Certifications:** Certified Python Programmer (PCEP)