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
- Collaborated with a team of 6 developers, engaging in code reviews and version control using git to refactor legacy codebase, aligning with business strategy initiatives and resulting in **45%** improved system performance
- Applied decision-making and problem-solving skills to troubleshoot and optimize key software processes

Website Maintenance Assistant *June 2021- Sep 2021*
Gatik Junior College
- Spearheaded a team of **7** students to design and implement new features using agile methodologies 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

Personal Portfolio Website **March 2025**
- Designed and implemented a responsive personal portfolio website using **React, Tailwind CSS,** and modern **JavaScript**
- Created an interactive user interface with smooth scrolling navigation and **dynamic** content loading
- Integrated **EmailJS** for contact form functionality, enabling direct communication from potential employers
- Deployed the website using **GitHub Pages** with continuous integration for seamless updates
- Implemented **responsive** design principles ensuring optimal viewing experience across desktop and mobile devices

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
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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

SKILLS

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