

Aaditree Jaisswal

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Professional Experience

Advisor360 - Software Engineer Intern

Weston, USA

Infrastructure - Python, Ansible, Jenkins

Jun 2024 – Aug 2024

- Reduced issue resolution time by 20% by engineering an automated Linux vulnerability assessment pipeline for internal endpoint systems using Python and Shell scripts; implemented a Tkinter-based GUI for real-time monitoring and packaged the tool into a standalone Windows executable using PyInstaller to streamline remediation workflows.
- Decommissioned 20+ non-production Linux servers by automating server workflows via Ansible playbooks and Jenkins pipelines, reducing manual effort and improving system uptime. Created and managed environment credentials (Dev, QA, Perf) to support cross-functional development teams and streamline access control.

Cisco Systems - Software Engineer II

Bengaluru, India

Customer Experience Cloud — Angular, NgRx, TypeScript, Node.js, Redux, Git, Jira

Aug 2021 – Jul 2023

• Feature Delivery & Impact:

- Accelerated roadmap delivery by 20% by delivering 5+ major end-to-end features, leading requirements gathering, design, coding, automated testing (Jest, Cypress), and deployment to ensure seamless releases.
- Reduced analytics latency by 30% by engineering Angular + NgRx UI modules for asset telemetry and lifecycle insights, serving 10K+ enterprise users and improving system reliability through proactive identification and resolution of critical production bugs.

• APIs & Testing:

- Integrated 20+ REST APIs with UI components, collaborating with backend teams on API schema design, data transformation, and robust error handling; performed comprehensive API and UI testing using Postman and Cypress.
- Achieved 90%+ test coverage by organizing and maintaining automation test suites by scenario and feature, enhancing test infrastructure maintainability.

• Collaboration and Documentation:

- Mentored 5+ engineers and conducted 50+ peer code reviews, upholding 90%+ code quality standards.
- Authored comprehensive feature documentation, led QA processes and participated in on-call incident response, collaborating with cross-functional teams to resolve urgent production issues.

Education

University of Massachusetts Amherst

Sep 2023 – May 2025

Master of Science in Computer Science

GPA: 3.9

MKSSS's Cummins College of Engineering for Women, Pune

Aug 2017 – Jul 2021

Bachelor of Technology in Computer Engineering

Research & Publications

Mathematical Expressions in Software Engineering Artifacts | [Publication](#)

- Curated a custom dataset of 1,500+ annotated bug reports and built a tool to identify mathematical expressions (MEs), increasing research efficiency by 20%+ in projects focused on ME-based issue detection.

Classification of Handwritten Indic scripts using Deep Learning | [Publication](#)

- Employed a deep learning approach to proficiently classify and identify twelve handwritten Indic script languages.

Effect of Hyperparameters on Backpropagation | [Publication](#)

- Analysed 10+ hyperparameter configurations during backpropagation training runs on multiple datasets; achieved a 7–10% improvement in model convergence rate and stability.

Technical Projects

Instasafe | [Demo Video](#) | [Github](#) | JavaScript, HTML, CSS

- Devised a browser extension employing fuzzy keyword matching and a pre-trained NLP model, identifying and flagging 95% of harmful content on child influencer accounts with a 98% precision rate.
- Crafted a trust score system to monitor user behavior and automatically censor users identified as zero-trust offenders.
- Designed a guardian dashboard enabling transparent moderation and review of flagged content.

Ummeed | [Demo Video](#) | [Github](#) | Python, Django

- Co-developed a Django-based platform to track global humanitarian issues, integrating 10+ issue profiles, real-time chat, and educational content.
- Integrated NLP modules for real-time clustering of 1,000+ news and social feeds, with interactive geospatial views powered by Google Maps and GeoPy.

Skills

Programming Languages & Frameworks: Python, Java, C++, TypeScript, JavaScript, R, HTML, CSS, Angular, React, Node.js, Django, Flask, TensorFlow, PyTorch, Redux, Cypress, GeoPy

Version Control, DevOps & Testing: Git, Perforce, Jenkins, Ansible, Shell Scripting, Cypress

Databases & APIs: PostgreSQL, MySQL, SQL, Elasticsearch, RESTful API integration, Swagger, Postman

Tools & Platforms: Linux, Firebase, GCP, Wireshark, Jira, Confluence, MS Excel, Tableau, Power BI

Achievements

- \$3,000 Recognition Award – Earned in the Bold Bets ONEx Data Challenge Validate Phase for API-based data collection innovation at Cisco.
- Cisco MVP Peer Award – Recognized for collaborative innovation on customer-impacting projects used by 50K+ users.
- Local People's Choice Winner, NASA International Space Apps Challenge 2020 – Built a real-time satellite data visualization tool engaging 1K+ users.
- Google DSC Lead – Organized and led coding and AI workshops for peers in undergrad.