

# Aaditree Jaisswal

[aaditree.github.io/portfolio](https://aaditree.github.io/portfolio) | [linkedin.com/in/aaditree-jaisswal](https://linkedin.com/in/aaditree-jaisswal) | [github.com/aaditree](https://github.com/aaditree) |  
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## Professional Experience

### 116 Ideas Inc.

Aug 2025 — Present

Software Engineer Intern - Go, Shell, Docker

Santa Clara, USA

- Researched digital payment solutions to support the company's upcoming public launch, evaluating trade-offs across user experience, security, and integration effort.
- Engaged in hands-on AI coding sessions and actively contributed to follow-up technical discussions, deepening practical understanding of AI-driven application development.

### Advisor360

Jun 2024 — Aug 2024

Software Engineer Intern - Python, Ansible, Jenkins

Weston, USA

- 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

Aug 2021 — Jul 2023

Software Engineer II - Angular, NgRx, TypeScript, Node.js, Redux, Git, Jira

Bengaluru, India

- 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 50K+ enterprise users and improving system reliability through proactive identification and resolution of critical production bugs.
- Integrated 80+ 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.
- Mentored 5+ engineers and conducted 50+ peer code reviews, upholding 90%+ code quality standards.
- Authored comprehensive feature documentation and led QA processes while participating in on-call incident response, collaborating with technical writers and cross-functional teams to publish best practices in Confluence and 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 — May 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, GeoPy

- 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, Angular, React, Node.js, Django, Flask, TensorFlow, PyTorch, Redux, R, HTML, Tailwind CSS.

**Version Control, DevOps & Testing:** Git, Linux, Perforce, Jenkins, Ansible, Shell Scripting, Cypress, GCP, Azure, Docker, Kubernetes, Terraform, GitHub Actions

**Databases & APIs:** PostgreSQL, MySQL, NoSQL(MongoDB), Elasticsearch, GraphQL, REST, Swagger, Postman

**Tools & Platforms:** , Firebase, Wireshark, Jira, Confluence

## Achievements

- 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.