

KRITIKA PARAJULI

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EDUCATION

Bachelors of Science in Computer Science; Minor in Mathematics

State University of New York (SUNY) at Oswego | Oswego, NY

Dec 2025

GPA: 3.66; President's list: Spring 2022, Fall 2022, Spring 2023, Spring 2024

AWS Academy Graduate - AWS Academy Cloud & Security Foundations

SKILLS

Programming & Scripting Languages:

Java, Python, C#, C, C++, Go, JavaScript, TypeScript

Tools:

Amazon AWS, Docker, React, Loggly, MongoDB, React, Postman, JMH, GIT (Github & Gitlab), Jira, Trello, Gantt Charts, UML, OpenLiberty, Maven, Oauth

RELEVANT EXPERIENCE

Global EMRA Automation Engineering Intern – Novelis

May 2025 - Present

- Built and maintained tools in C# to streamline asset inventory management across automation systems, improving accuracy and visibility for cross-functional teams
- Applied Agile practices through stakeholder meetings, iterative development, and testing, delivering solutions aligned with user needs and business priorities
- Gained hands-on experience with cybersecurity and Active Directory, contributing to automation system security while learning from senior technical leaders
- Enhanced training and onboarding materials by identifying gaps, updating content, and designing new resources to improve knowledge-sharing across teams

Software Engineer Intern – Jobs4Interns

Jun 2024 - Aug 2024

- Developed and optimized data storage and retrieval process using MongoDB, ensuring 30% performance improvement
- Conducted API testing and reliability analysis, ensuring system stability across environments
- Designed efficient state management for front-end interfaces using React.js, enhancing user experience

RELEVANT PROJECTS

Quotable – Fullstack Application

Spring 2025

- Collaborated in a cross-functional team of 20 students to design, develop and deploy 'Quotable', a full-stack quote management application featuring a RESTful API, user authentication, and a responsive front-end built with React
- Served on the Requirements team, gathering and defining project requirements through stakeholder interviews and collaborative workshops, in addition to refining system requirements throughout the project's lifecycle
- Co-managed the project timeline and coordination among front-end, back-end, QA and UX/UI teams to ensure alignment between design goals and user needs
- Assisted developers and testers by identifying and resolving issues during the development process, delivering effective communication and ensuring agile collaboration to keep all teams on track for the bi-weekly scrums

AWS Deployment

Fall 2024

- Automated the deployment of containerized applications using Amazon ECS and CodeDeploy, improving efficiency and consistency of application rollouts
- Configured and optimized AWS EC2 instances and Docker containers, while manually deploying the application to understand the deployment behind the scenes
- Implemented comprehensive monitoring and logging solutions with Amazon Cloudwatch and Loggly, to track performance, troubleshooting deployment issues, and ensuring operational transparency

Proxy Server Implementation

Fall 2024

- Developed a proxy server in Java simulating TFTP with TCP-style reliability, supporting URL-based file retrieval, caching, and secure relaying to client
- Incorporated lightweight encryption using randomized XOR key exchange derived from session-based sender ID and random seed negotiation
- Designed custom TFTP packet headers and integrated IETF 2347 Options Extension for extended configuration flexibility

Requirements Engineering – Research

Summer 2024

- Conducted in-depth analysis of UML diagrams to evaluate software model quality using quantifiable metrics, following methodology outlined in peer-reviewed research
- Contributed to an experimental framework aimed at identifying reliable indicators of high-quality software design models
- Managed a team using Agile methodologies and sprint planning, optimizing tools such as Jira, Gantt charts, Trello, optimizing team efficiency and deliverables

Envisionary - Fullstack Application

Spring 2023

- Developed and integrated automation solutions in a web application that allowed users to manage predictions in real-time data analysis to meet the stakeholder requirements
- Implemented real-time data tracking and analysis, pulling information from multiple APIs to automate data collection and synchronization, improving accuracy in the data received by the users
- Maintained a Software Requirements Specification (SRS) document, systematically tracking system requirements and presented weekly updates to stakeholders based on those specifications

LEADERSHIP EXPERIENCE

Career Peer Intern – Career Services at SUNY Oswego

Aug 2024 - Present

- Led and coordinated workshops, providing structured guidance on resume optimization and LinkedIn strategies, enhancing student's job application success rates
- Assisted in project coordination and reporting, ensuring efficient documentation of employer partnerships and workshop outcomes to improve program scalability
- Networked with employer partners to organize events and information sessions, providing students with direct access to job and internship opportunities

Resident Assistant (RA) – Residence Life and Housing at SUNY Oswego

Jan 2023 - Present

- Implemented and enforced policies and safety protocols, ensuring compliance with the organization needs, while effectively resolving conflicts, demonstrating strong analytical, problem-solving, and leadership skills
- Coordinated and led periodic meetings and programs focused on the diverse group of residents, ensuring clear communication and organization while fostering an inclusive environment that respects diverse cultural backgrounds