

SAGAR PYAKUREL

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GitHub: github.com/sagarpyakurel | **Portfolio:** sagarpyakurel.com.np

Summary

Backend-focused Software Engineer specializing in Python/Django and RESTful systems, with experience deploying scalable applications on AWS using Docker and CI/CD pipelines. Improved grading automation and resolved cross-platform evaluation inconsistencies in Linux/macOS environments as a Graduate Teaching Assistant. Strong problem-solver with experience in API design, system reliability, and backend optimization.

Technical Skills

- ❖ **Languages:** Python, Java, JavaScript
- ❖ **Frameworks:** Django, Django REST Framework, Node.js (Express)
- ❖ **Databases:** PostgreSQL, MySQL, MongoDB
- ❖ **Cloud & DevOps:** AWS (EC2, S3, IAM), CI/CD (GitHub Actions/GitLab CI), Docker, Linux
- ❖ **Tools:** Git, Bash, Postman, Swagger/OpenAPI
- ❖ **Web:** HTML5, CSS3, ES6
- ❖ **Other:** Manual testing, basic ML/LLMs, networking troubleshooting

Projects

- ❖ **Customer Management System** → Customer, order, and inventory management with full CRUD admin features. (Django & PostgreSQL)
- ❖ **Chef-Hyderabad** → Secure login, menu browsing, order placement, and feedback submission. (Node.js & MongoDB)
- ❖ **Real-Time Weather Tracking** → Django app integrating external weather APIs. (Django & JS).
- ❖ **Personal Portfolio** → Responsive portfolio with a serverless contact form deployed on Netlify. (HTML/CSS/JS, Netlify, Serverless Functions)

Education

- ❖ **M.S. in Computer Science [Loyola University Chicago, Chicago, IL] (Jan 2024 - Dec 2025)**
 - GPA: 3.96

Experience

- ❖ **Graduate Teaching Assistant [Loyola University Chicago, Chicago, IL] (Jan 2024 - Dec 2025)**
 - Supported COMP 141 (Unix/Linux & Computing Tools) and COMP 170 (Python, Java, OOP); led labs, office hours, and debugging support for students and graders.

- Resolved a cross-platform grading script issue causing different scoring outputs on macOS and Linux, restoring consistent evaluation across environments.
 - Identified and resolved a workflow loophole that allowed students to bypass GlobalProtect through the virtual-OS environment, improving assignment integrity and compliance.
 - Automated sections of a Java-based lab grading tool to speed up evaluation and reduce manual workload.
 - Graded exams, labs, and assignments using standardized rubrics to ensure fairness and timely feedback.
- ❖ **Software Engineer (Python/Django) [Code Himalaya, Nepal] (Mar 2022 - Aug 2022)**
 - Developed backend features for a Teaching & Learning Management System using Django REST Framework with a PostgreSQL database, improving API reliability and performance.
 - Designed and documented REST APIs using Postman and Swagger to enable smooth integration with frontend and QA teams.
 - Containerized application services with Docker to ensure consistent development and deployment environments.
 - Deployed the platform on AWS EC2 and contributed to creating a CI/CD pipeline, reducing manual deployment effort and accelerating release cycles.
 - Collaborated via Git feature branching and participated in code reviews to maintain clean, high-quality releases.
 - ❖ **Support & QA Engineer [IMS Software Company, Nepal] (Sep 2021 - March 2022)**
 - Handled customer support tickets, documented reproducible steps, and routed issues to engineering.
 - Created and executed manual test cases across ERP Patanjali modules (orders, inventory, billing).
 - Validated bug fixes and performed regression testing to reduce recurring issues.
 - ❖ **Banker (Teller & CSE) [NICASIA Bank, Nepal] (Apr 2019 – Oct 2019)**
 - Processed daily transactions in the Finacle Core Banking System with accuracy and compliance.
 - Provided front-desk support and issue triage during peak traffic hours.

Awards & Certifications

- ❖ **Merit-Based Scholarship** → Tribhuvan University (2014), 50% tuition discount.
- ❖ **Academic Topper** → BIM 14th Batch, Prime College (2018).
- ❖ **Graduate Teaching Assistant Award** → Loyola University Chicago (All 4 semesters).
- ❖ **Fundamentals of Digital Marketing** → Google Digital Garage.
- ❖ **Penetration Testing, Incident Response & Forensics** → Coursera.
- ❖ **Python for Data Science** → IBM/Coursera.

[\[Link to all Certifications\]](#)