

# Oyon Ganguli

Software Developer - ITWS

Greater Boston / Troy, NY • ganguo@rpi.edu • [github.com/Oce10tsgit](https://github.com/Oce10tsgit) • [ganguli.dev](https://ganguli.dev)

## SKILLS

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### Languages (Proficient in all listed):

JavaScript (Node.js), C/C++, Python, PHP, SQL, HTML/CSS, R, LUA, Java, Javascript

Technologies: Git/GitHub, Azure, MariaDB, phpMyAdmin, Google Apps Script, npm, Google Suite, FASTAPI, SQLAlchemy, PostgreSQL, Jira, Jquery, AI/ML training, Ollama, Huggingface, Linux

Concepts: RESTful APIs, Database Design, Data Structures & Algorithms, Cloud Deployment, Debugging, Teamwork, OOP, Discrete Math, Agile and Scrum development, Test-driven Development, AI-Assisted development,

## EDUCATION

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### Rensselaer Polytechnic Institute (RPI) — Troy, NY

08/2025 – Present

Bachelor of Science, Information Technology and Web Science

- Data Structures & Algorithms (C/C++)
- Introduction to Information Technology and web sciences. (WebDev & DevOps, Azure)
- Foundations of Computer Science (Discrete math and Algorithm Analysis)
- Rensselaer Center for Open Source Software (FOSS and Agile & Scrum development)
- Intro to Biology Computation Lab(Data analysis and visualization with R)

## WORK EXPERIENCE

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### Coding Instructor, Code Ninjas

07/2023 – 08/2024

- Taught programming & concepts, adapting material to student needs, taught JavaScript, Python, Java and LUA
- Debugged student projects across many development environments
- Managed multiple concurrent student projects under tight deadlines
- Presented technical progress and outcomes to parents in clear, non-technical terms

## PROJECTS([github.com/Oce10tsgit](https://github.com/Oce10tsgit) or [ganguli.dev](https://ganguli.dev))

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### Backend Developer, GitFieiri Project — RPI ITWS 1100 Term Project

11/2025

- Built RESTful API backend supporting CRUD operations for a collaborative cookbook application
- Designed and implemented MariaDB database schema and wrote SQL queries
- Made backend version control logic in PHP implementing branching, merging, and ownership changes
- Deployed to Azure and managed database using phpMyAdmin
- Delivered technical presentation explaining system architecture and implementation decisions

### Floating Point Math Library- Node.JS Project

5/2022

- Designed string manipulation algorithm for accurate floating-point math
- Structured as npm-ready package with modular class-based architecture

### Backend Developer, Rensselaer Center for Open Source 2700 - Ride link

1/2026

- Open Source app implementing a FASTAPI RESTful API backend for a carpooling matcher.
- Designed database schema implementing with PostgreSQL and SQLAlchemy
- Graded on code quality as well as following development and open source practices.