# GABRIEL BUXO

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## EDUCATION

**RIT and Brooklyn College, CS Major with Math Minor, Bachelors of Science** **2021 —**

- Software Engineering
- Computer Science 1 and 2
- Computer Science Theory
- Analysis of Algorithms
- Concepts of Parallel and Distributed Systems
- Discrete Mathematics
- Probability and Statistics
- Multivariable and Vector Calculus
- Differential Equations

## WORK EXPERIENCE

**Mathnasium Math Tutor** **January 26, 2025 —**

- Communicated complex concepts clearly to students with diverse knowledge levels, developing strong explanation and simplification skills.
- Analyzed students' current understanding to adapt teaching technique and strategy in real-time, allowing for highly effective and personalized instruction in small groups and one-on-one private tutoring.

**Ramapo Day Camp Gymnastics Specialist and Bus Counselor** **Summer 2024**

- Collaborated within a team to create structured, engaging learning programs that met specific developmental goals.
- Tailored communication approaches for different audiences, ensurin g clear instruction delivery in both one-on-one and group settings.
- Developed leadership abilities by coordinating lesson planning and execution, showcasing organizational and team coordination capabilities.

## PROJECTS

**Terminus Solver** **buxogabriel.vercel.app/terminus-solver**

I developed a **user-friendly** website that has been used **over 30,000 times** by more than 15,000 individuals to assist players in solving a puzzle within Call of Duty: Black Ops 6 Zombies. Recognizing the need for a clear and **accessible tool**, I designed and launched the website within two days of the map's release, leading to a **rapid adoption** of **over 10,000 uses in the first week**! Beyond the initial development, I have continued refining the site to enhance accessibility and **user experience**.

**GabeLang** **github.com/BuxoGabriel/GabeLang**

GabeLang is a **interpretted programming language** written in **Rust**. Being fully **cross-platform** it can be run on **Linux**, **Mac**, **Windows**, or even in the **browser** through **WASM**! GabeLang supports critical features such as **branching logic**, **arithmetic operations**, **loops**, and **first-class functions**. Gabelang is automatically published to crates.io and npm since I developed a robust **CICD** pipeline where changes are tested on push and new releases are automatically built and published for immediate access and updates by users.

**Portfolio Website** **buxogabriel.vercel.app**

Functioning as a second resume, my portfolio website was designed to showcase my skills in design and be a place to publish projects. The website is made using industry standard technologies such as **React** and **Next.js** for frontend and backend, **Zod** for input validation, and **Resend** for emails.

**CRUD Todo App** **capable-praline-7301a7.netlify.app**

Developed a **CRUD** (Create, Read, Update, Delete) app for managing to-do lists using **Sveltekit** and a **PostgreSQL database**. Designed as a **PWA** (Progressive Web App), it supports **fully offline** functionality and can be installed on both desktop and mobile devices.

## SKILLS

**Languages:** Javascript, Typescript, C, C++, Java, Rust, Go, Godot, SQL
**Tools:** Docker, Linux, AWS, Github Actions, Jest, Tailwind, Wasm-Pack