

MAITRA PATEL

Backend and Cloud Developer

PHONE

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LINKEDIN

www.linkedin.com/in/maitra-patel

GITHUB

<https://github.com/MaiTra10>

EDUCATION

Bachelor of Science in Software Engineering, University of Calgary

Calgary, AB

Sep 2021 – May 2026

GPA | 3.15

TECHNICAL SKILLS

Languages: Python, Java, JavaScript | HTML | CSS, SQL, Bash

Frameworks and Tools: Django, Django REST Framework, Docker, Linux, Terraform, Github, Git

Amazon Web Service (AWS): Lambda, API Gateway, RDS, Parameter Store, IAM, Polly

Databases: DynamoDB, PostgreSQL, MySQL

Knowledge: API Development, REST APIs, Network Protocols (HTTP, TCP/IP, etc.), Unit Testing, CI/CD

PROJECTS

prjctVes | Personal Project | <https://github.com/MaiTra10/prjctVes>

A Discord bot to keep track of stocks and CS:GO items in a watchlist

- Created a Discord bot using **discord.py** for **asynchronous** command handling and data responses
- Made use of the **Yahoo Finance API** to retrieve stock data and the **Steam API** for CS:GO item data
- Utilized **matplotlib** to generate graphs and **BeautifulSoup4** to scrape data which was otherwise not available through the API
- Deployed the functionality as a private **REST API** on **AWS API Gateway** with endpoints linked to **Lambda Functions**, and used **DynamoDB** to store user watchlists
- Hosted the bot by running a **linux/arm64 docker image** as a **container** on a **Raspberry Pi 4** with **Debian Linux** installed

prjctNotes | Personal Project | prjctnotes.com

A full-stack web application to take notes with log-in and sign-up functionality

- Built the front-end of the application from scratch with **HTML**, **CSS** and **JavaScript**
- Created a **log-in**, **sign-up** and **forgot-password** system via **Lambda Function URLs**
- Implemented a way to save notes on either **local storage** or on a **DynamoDB** table for logged-in users
- Used the **smtplib Python module** to send users an e-mail in the case they forgot their password, and stored the admin e-mail password as a **secure string** on **AWS Parameter Store**

EggLoL | Partner Project | <https://github.com/alia720/EggLoL>

A Discord bot that displays League of Legends champion details and user profiles

- Collaborated closely with a partner where we effectively divided tasks and **resolved occasional merge conflicts** on **Github**
- Hosted a **PostgreSQL** server on a Raspberry Pi 4 and enabled **TCP/IP** connections which allowed my partner to connect to the database remotely and saved on monthly RDS costs

Portfolio | Currently Working On

A portfolio with a backend twist to a predominantly frontend focused application

- Creating the application using **Django** and using **HTML**, **CSS** and **Javascript** for the **view**
- Utilizing the **Django REST Framework (DRF)** to program an **API** to retrieve the content
- Building data **models** for 'projects', 'about me' and 'resume' sections which are accessed via a **CRUD API**

EXPERIENCE

SumoBot Team Member, Alberta Collegiate Robotics

Calgary, AB

Jan 2022 – May 2023

- Displayed **teamwork** in a **group of four members** as well as **independence** on delegated work
- Utilized the **Arduino IDE** to program an onboard **Arduino**
- Worked with **Fusion 360** and **OnShape** to design the chassis of the robot

PROFESSIONAL DEVELOPMENT

Engineering Leadership Program

University of Calgary

Sep 2022 – Current

Developing important **communication** and **leadership** skills through collaborative workshops