

Pazim Goyal

Python Developer

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🐦 twitter.com/pazim_goyal

🌐 Pazimgoyal.pythonanywhere.com (student housing)

TECHNICAL SKILLS

- Programming Language: **Python**, JAVA.
- Web Technologies: **HTML**, **CSS**, **JavaScript**, **PHP**, **Bootstrap**.
- Python Frameworks: **Django**
- Python libraries: **Pandas**, **Celery**, **Channels (WebSocket's)**, **APScheduler**, **celery-beat**, NumPy, OpenCV, Socket.
- Worked on: **Docker**, Redis, UWSGI, NGINX, Daphne
- Java Frameworks: Working knowledge of Spring, Spring MVC, Hibernate.
- Android App Development.
- Databases: MySQL, SQLite, **MongoDB**
- Versioning Tool: **GitHub**.
- Application Software: Eclipse, MS Office, Android Studio, Unity, Adobe Photoshop, **PyCharm**, Adobe Illustrator, **IntelliJ IDEA**.
- Operation System: Windows, MAC.
- Basics of Unity, Java Swings, Erlang and Closure, C++, **Typescript**

WORK EXPERIENCE

GE Renewable Energy - Stagiaire HV3D developer / Stagiaire Python Developer

June 2020 – Present

Brossard, Quebec, Canada

- Worked on **Python Django** app to schedule jobs to import data at scheduled intervals asynchronously using **Celery**, **Celery beat**, **Redis**. Format the received data according to requirements and insert it into MongoDB. Also, an additional Front-end UI was developed to modify, edit jobs and corresponding factors using **Typescript**, **Html** and **CSS**.
- Django App was developed to upload CSV or excel sheet containing data for years, format data and insert it into MongoDB. The Front end was also developed to drop-upload files, preview files, automatic map columns, and see processing progress.
- For progress **WebSocket's** are used to create connection between client and server and send periodic progress updates, maintaining a continuous two-way connection. For the same **Django channels** is used and **Channels-Redis** as queue broker and **Redis**. Also, the tasks are executed using celery.
- Project was running on **docker** running **Redis**, **Rabbitmq**, **Project**, and **MongoDb** as containers.

References:

Antoine Gardeux

Analytics Software Engineer

GE Renewable, Belfort, France.

Email: antoine.gardeux@ge.com

College CDI – Web Design Instructor

May 2019 - Present (1.5 Years)

Montreal, Quebec, Canada

Delivered theoretical and practical lectures on Web technologies such as HTML, CSS, JavaScript, Database, PHP and Adobe Software's such as Adobe Photoshop, Adobe Illustrator and many more.

Invigilating and Conducting exams.

Concordia University – Teaching Assistant

2019

Montreal, Quebec, Canada

- Teaching Assistant, Computer Networks (Grad)
- Teaching Assistant, Data Structure and Algorithms (Under Grad)

References:

Dr. Aiman Hanna

Senior Lecturer, Computer Science and Software Engineering.

Email: Aiman.hanna@concordia.ca

Tech Mahindra – Android Intern

2015

Chandigarh, India

- Android 5.0 development Training.
- Developed android app and learned about core android concepts.

References:

Er. Rizma Aggarwal

(now) Manager Backend Developer at Morgan Stanley.

Email: karisagoyal@gamil.com / rizma.aggarwal@morganstanley.com

ACADEMIC BACKGROUND

Master of Applied Computer Science

Concordia University

Montreal, Quebec, Canada

Jan 2018 – Dec 2019

GPA 3.2/4

Batcheler's of Technology- Computer Science

DAV University

Jalandhar, India.

June 2013 – July 2017

CGPA 8.0 / 10

ACADEMIC / PERSONAL PROJECTS

PYTHON

- **DJANGO WEBSITE: (STUDENT HOUSING)** – pazimgoyal.pythonanywhere.com
Developed a listing website using Django Framework for International students to find rental apartments and rooms. As there is no specific website for renting and posting ads about renting rooms this would a great way for students to find shared/Private rooms with ease.
 - Backend: Python Django.
 - Database: SQLite (would be switching to PostgreSQL and mongoDB).
 - Image Compression/resize Lib: Pillows
- **Panorama Using Python OpenCV:**
 - Demosaic of images using Python library OPENCV and NUMPY. Converting RAW greyscale image to colored image.
 - Detecting and Matching Corners in image using Harris Corner Detection and SIFT.
 - Creating panorama by joining multiple images having some common points. (Created Code similar to Python OpenCV library.)
- **Curl like Command line (Networking):** made TCP UDP Curl like Client Server Using Python 3 and Socket library. Sent and Received data packets over reliable and unreliable route.
- **Comparative:** Using Python, Erlang, Clojure and Java to make similar projects and comparing the Difference in them.
- **Sentiment Analysis Of amazon review data (Data Mining):** Sentiment analysis of Amazon product review database using KNN, SVM and Naïve Bayes Algorithms using python. All the algorithms were implemented, and no library was used.

JAVA

- Algorithm Design Techniques: Designed and developed various algorithms to design routing pattern for bike distribution vehicle of bike rental companies, so as it could be done efficiently and directed graph (representing city) could be traveled within given time constraints.
- RISK Game: Teamwork Project of development of classic game RISK in java using Java Swing, Model View Controller (MVC), Observer Pattern, etc.
- Software Failure Tolerant and Highly Distributed Event Management System: Multiple Distributed systems designed using a. Java RMI
 - CORBA
 - SOAP web services.
- Pattern Recognition: Developed a Java project to mimic Positive Reinforcement over multiple generations using mutation and crossover of fittest population.
- Memory Constraint Database: working on huge databases with memory constraint of 5mb using Java.

ANDROID

- **DAVUtsav**: developed an Android app for university cultural fest for fest info and Registration.
- Ease Service: developed an android app for minor project for fast services in different sectors.
- **APP Quiz**: Developed an android game similar to many quiz games in which someone have to guess the name by just seeing complete or incomplete logo of app or game available on play store.
- **Unity Games**: Developed 3D VR game using unity game engine for major project. User can drive a car using another android device as remote control and See the city through VR headset. Developed

C++ AND WEB

- C++: Doing multiple work using such as creating manual linked list, creating slot machine using etc.
- **MoonlighIndianCuisine**: earlier Developed a website for Australian restaurant using HTML, CSS, and PHP “moonlight.pazimgoyal.com”
- **Pazimgoyal.com** My own website “pazimgoyal.com”

OTHER EXPERIENCES AND ACHIEVEMENTS

- won Hackathon by General Electric during WATERPOWER Canada conference 2019.
- Coordinator or of various website, app development and gaming events
- Participated in various Coding events and won prizes.
- Participated in inter college coding events.