PAZIM GOYAL

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GitHub: github.com/PazimGoyal

TECHNICAL SKILLS

Programming Language: Python
Python libraries and Frameworks: Django,Django-rest-framework, FastAPI, Pandas, Celery, Channels (WebSocket's),
APScheduler, celery-beat, NumPy, OpenCV, Socket
Web Technologies: HTML, CSS, JavaScript,Typescript, PHP, Bootstrap JQuery
Databases: MYSQL, SQLite, MongoDB
Version Control: GitHub , Git
Application Software: PyCharm, IntelliJ IDEA, Microsoft Visual Studio, Eclipse, MS Office, Android Studio, Unity
Operation System: Windows, MAC
Others : Redis, UWSGI, NGINX, Daphne, Java, PHP, C++, Unity, Java Swings, Erlang, Closure, Android App Development
Good knowledge of Adobe Photoshop, Adobe Illustrator

WORK EXPERIENCE

Stagiaire HV3D developer / Stagiaire Python Developer
GE Renewable Energy / June 2020 – Present / Brossard, Quebec, Canada
·   Responsible for integrating celery and channels into project to run large jobs asynchronously.
·   Responsible for implementing data import automation every 30 minuets.
·   Used websockets to reduce large page initial loading time from 60- 120 seconds to 5-10 seconds
·   Custom solution designed to show progress to user while process being executed in back-end. Progress bar for end user and command-line like interface for internal user.

Web Design and Development Instructor
CDI College / May 2019 – Present / 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.

Teaching Assistant
Concordia University / 2019/ Montreal, Quebec, Canada
·   Teaching Assistant, Computer Networks (Grad)
·   Teaching Assistant, Data Structure and Algorithms (Under Grad)

Android Intern
Tech Mahindra / 2015/ Chandigarh, India
·   Android 5.0 development Training.
·   Developed android app and learned about core android concepts.

ACADEMIC BACKGROUND

Masters of Applied Computer Science	Montreal, Quebec, Canada
Concordia University	Jan 2018 – Dec 2019
	GPA 3.2/4

Bachelor's of Technology- Computer Science	Jalandhar, India.
DAV University	June 2013 – July 2017
	CGPA 8.0 / 10

PROJECTS

PYTHON

- Digital Hydro Project / Clear-Water project [GE Renewable Energy] :
    - Automated Script to import data automatically at regular interval. Import is done asynchronously using CELERY, to schedule the tasks djago-celery-beat is used along side database scheduler. Redis is used as broker for the same.
    - Worked on POC. large amount of data was processed and inserted in MongoDB, to show processing updates at front end websockets were used to create two way connection such that server could sent periodic updates to client. To do the same channels and daphne were used and task was run using celery.
    - MongoDB , Redis, and django project using nginx , uwsgi and daphen were run on docker.
    - Using SVG, JavaScript created an model to show different parts of machinery on hover and go in depth in part on click etc.
- DJANGO WEBSITE: (STUDENT HOUSING) [Personal project]– 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.

- Panorama Using Python OpenCV [Academic]:
    - 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) [Academic] : made TCP UDP Curl like Client Server Using Python 3 and Socket library. Sent and Received data packets over reliable and unreliable route.
- Sentiment Analysis Of amazon review data (Data Mining) [Academic]: 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[Academic]: 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[Academic]: 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[Academic]: Developed a Java project to mimic Positive Reinforcement over multiple generations using mutation and crossover of fittest population.
- Memory Constraint Database[Academic]: working on huge databases with memory constraint of 5mb using Java.

ANDROID

- DAVUtsav [For University]: 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[Personal] 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:[Personal] 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

- MoonlighIndianCuisine: [freelancel]: Developed a website for Australian restaurant using HTML, CSS, and PHP "moonlight.pazimgoyal.com"
- Pazimgoyal.com [Personal] My own website "pazimgoyal.com"

SOFT SKILLS

- Always Hardworking, Team player, extremely friendly.

OTHER EXPERIENCES AND ACHIEVEMENTS

- won Hackathon by General Electric Renewable Energy 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.