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Robert Beaudenon

www.github.com/robertbeaudenon
www.robertbeaudenon.com

Education

Concordia University Montreal, QC **Sep 2018 - Jun 2021**

- **Major:** Software Engineering, B.S.E (GPA: 3.73)
- **Programming Coursework:** Algorithm & Data Structures, OS, Artificial Intelligence, Data Systems, Data Analytics, Machine Learning.

Experience

Software Developer **Voyant** **Apr 2020 - Today**

Video Processing

- Integrated object detection in videos using Google vision API, Detectron2 and supervising a team of 8 to build the final product.
- Leveraged knowledge in Git, GCP (Google Cloud Platform), Computer Vision and programmed in Python.

Software Developer Intern **National Bank of Canada** **May - Sep 2019**

Bank IT Security - Team IAM *(www.nbc.ca)*

- Implemented scripts to automate the deployment of a vault solution that manages the access of high privileged users to servers.
- Automated the deployment of an Agent to monitor the vault solution.
- Integrated the users and the servers of the bank with the vault solution.
- Leveraged knowledge in Git, Linux (CentOS, RHEL), Windows (2012R2, 2016), Ansible, Terraform, Jinja2, Docker, Jenkins, PowerShell, AWS, VMware, ELK (Elasticsearch, Logstash, Kibana), Jira, Agile.

Software Developer Intern **Dataflow** **Jun - Aug 2018**

Solutions for the Banking and Finance industry (www.dataflow.com.lb)

- Developed an Android application to store and manipulate records.
- Created a Responsive Design adapting to various screen sizes to provide a good user experience to customers.
- Leveraged knowledge in Git, SQLite and programmed in Java using Android Studio IDE.

Engineering Projects

Personal Website: www.robertbeaudenon.com *(for projects and additional information)*

Artificial Intelligence Optimal Path Finding Algorithm **Sum 2020**

- Generated a customizable crime risk map based on predefined crime rates data at specific coordinates.
- Implemented an A* heuristic search algorithm to find an optimal path between two coordinates on the map under 10 seconds.
- Utilized: Python, PyCharm IDE.

Machine Learning & Natural Language Processing: Naïve Bayes Classifier **Sum 2020**

- Generated a probabilistic model/vocabulary from the Hacker News dataset fetched from Kaggle.
- Predicted the class type of each title using a Naïve Bayes Classifier.
- Conducted multiple experiments in order to study the improvement in performance and used graphs to map the results.
- Utilized: Python, PyCharm IDE.

Campus Navigation Map **Win 2020**

- Developed an Android application for university students that allow users to navigate on the Concordia campus using Google Maps API.
- Implemented outdoor and indoor navigation between classes and displayed outdoor points of interest to facilitate the life of students.
- Utilized: Git, Kotlin, SQLite, Android Studio IDE, Jenkins, AWS (EC2), GCP, Zenhub.

Market Place Website (Personal Project) **Win 2020**

- Developed a platform for university students that allow users to request services or make money by applying for services.
- Designed a RESTful backend server to allow real time messaging, geolocation, rating and image upload between the users.
- Utilized: Git, Angular, NodeJS, MongoDB, Heroku, AWS (S3 Bucket), Socket.io, JWT and debugged using Chrome Developer Tools.

Twitter Website Replica **Win 2019**

- Implemented a friendly interface of Twitter.
- Worked mostly on the back-end using NodeJS creating features such as Follow/Unfollow a user, Registration and Like/Delete a tweet.
- Utilized: Git, Angular, NodeJS, MySQL, Visual Code IDE.

Restaurant Application **Win 2018**

- Designed the architecture using various diagrams to generate the model and get an overview of the system.
- Implemented the application that assisted waiters for reservations, ordering, and billing and owners for creating menus.
- Utilized: Git, Java, Windows builder plugin, Umple (to generate the model), Class Diagram, Sequence Diagram, State machine.

Amazon Warehouse Management System **Win 2018**

- Developed a program mimicking the management of Amazon's warehouses.
- Each registered box was placed on shelfs based on size and urgency.
- Implemented an API to reorganize the warehouse in order to optimize space.
- Utilized: Java, Eclipse IDE.

Skills

Technical tools: Java, Python, C, JavaScript, PHP, Typescript(Angular), Html/CSS, Ruby, Ansible, Terraform, MySQL, MongoDB, Neo4J, AWS, GCP, Jenkins, Docker, Git, Agile.

Languages: Fluent in English, French and Arabic.

Awards and Acknowledgement

- 2nd place in the Middle East Wakeboarding championship 2014.
- Strong interest in Surfing, Skating, Hiking, Travelling, Photography and Music.
- Helped to deliver and organize food boxes to support victims of the Beirut port explosion with World Central Kitchen.
- Participated in a Capture the Flag (CTF) event organized by CSE Canada and attended the VARONIS webinar on Anatomy of an attack.
- Participated in two AWS Gameday Hackathon (Machine Learning & Cloud) and attended the AWS re-invent conference.