GABRIELA SEWDHAN

SOFTWARE ENGINEER AND DATA SCIENTIST

PROFILE

BSc. In Computer Science and Psychology Experienced Software Engineer and Data Scientist with a strong background in algorithms and software design, and advanced knowledge in Python and C++. Talented at working effectively in collaborative and self-

CONTACT

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SKILLS

C++, Matlab, Python: Scikit-learn, Tensorflow, OpenCV, ROS, PCL, Knowledgeable in software and algorithm design, data structures and software testing

Software Development in Linux, Hardware programming using Raspberry Pi and Arduino

Practised in Git, JIRA and Continuous Integration

Sever-Side Skills: SQL, Docker and Server-side programming with Python, GoLang and NodeJS. Knowledgeable in AutoCAD and SolidWorks

Data Science: regression models, Pandas, NumPy, Data Visualization with Plotly, Seaborn

Amazon Web Services, including Serverless Deployment (and YAML) and CloudFormation, EC2, Elastic Container Service, Amazon Lex. Experienced in Cloud Infrastructure.

Web and App Development: HTML5, JavaScript, React Native and Expo, Ionic Framework, ReactJS, PreactJS, Django

Adept at explaining complex topics to individuals of various technical backgrounds.

Able to effectively disperse tasks to project members that best suit their skills, and

IMPORTANT LINKS

GitHub - https://github.com/princesszelda94
LinkedIn - https://www.linkedin.com/in/gabriela-sewdhan-3ba495120/

REFERENCES

Professor Patrick Hosein, Senior Lecturer, Founder and Director, *UWI | TTLAB*
1 (868) 229-3651

Major Pernel Roberts, Senior Manager, Strategic Analytics and Performance, *TSTT*
1 (868) 686-0782

Kevin Ramnath, Chief Electrical Engineer, *Amera Corporation*
1 (868) 734-2113

Louis Kinley, Chief Technical Officer, *Persisto Labs*
1 (868) 343-9638

WORK EXPERIENCE

DATA SCIENTIST AND SOFTWARE DEVELOPER @ TELECOMMUNICATION SERVICES OF TRINIDAD AND TOBAGO

November 2019 – Present

Employed a recommender system to improve customer retention and long-term profit optimization via recommending and creating personalizing bundles. Developed an Admin interface for managing users, roles and permissions. Performed extensive analysis on team productivity data and assisted in the development of a Figure Of Metric (FOM) and dashboard for productivity during COVID-19. Conducted Bi-weekly Programming and Data Science workshops.

SOFTWARE DEVELOPER AND TESTER @ U.W.I DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

July 2019 – August 2019

Researched and fully tested an existing system. Further developed and implemented new features for that system using PHP, XAMPP and MS SQL Server. Gained further experience in team management, Agile and SCRUM methodologies.

SOFTWARE DEVELOPER AND DATA SCIENTIST @ TECHNOLOGIES PERSISTO TECHNOLOGIES

August 2018 – October 2018

Developed various software modules with a stringent and well-documented Git workflow, worked on deploying these microservices to Amazon Web Services. Gained practical experience in Cloud infrastructure and deployment, React Native app development, as well as created a chatbot using Amazon Lex.

EDUCATION

BSc. Computer Science @ University of the West Indies, St. Augustine

September 2016 – May 2020

First Class Honors

Full-stack development, optimization, software implementation of algorithms, Git workflow, machine learning and project management were practiced throughout, during course projects.

BSc. (Special) Psychology @ University of the West Indies, St. Augustine

September 2013 – August 2016

First Class Honors
Research Paper: "Examining the Psychological Well-being of Cancer Survivors"
Supervisor: Dr. Jannel Phillip

ACCOMPLISHMENTS

QuickRental [2019]

A fully fledged apartment rental and social network app designed for U.W.I students via ReactNative and Expo.

DadliHack 2.0 Hackathon [2019]

AntiPlasti: Leveraging the Raspberry Pi, Cloud Technologies and React, in Detecting Oceanic Plastics and Waste using Image Recognition

Bengaluru Tech Summit 2019 [2019]

"Innovation & Impact: Bengaluru Palace, Bengaluru, India"

WSIS Forum HackAgainstHunger [2018]

PiDronics: Automated Hydroponics Control System to Increase Effectiveness With Limited Resources and to diagnose plants using Image recognition

P-React [2018]

Image recognition with TensorFlow-lite was used to analyse body language and determine threatening poses.

DCIT, UWI Robotics Bootcamp Mentor [2017/2018]

Volunteered as a senior mentor where I assisted in organizing the camp, contributing to the code and assisted students in programming a raspberry pi robot, particularly on the use of inceptionv3 for image recognition, epspeak for voice and the distance sensors to measure distance. Students were able to successfully program the robot to solve a maze, detect objects and dance.

Telios Code Jam [2017]

MET-Oracle: Using Machine Learning to Improve City Resilience and Awareness to Extreme Weather Conditions Due to Global Warming

International Collegiate Programming Contest (ICPC) [2017]

DCIT Runtime Competition [2017]

RESEARCH PROJECTS

Eva-Ling: Evaluating and Developing Speech Recognition for Caribbean Dialect [2018]
Companion Bot: [2020 - Now]
Recognising physiological and psychological issues via body language and facial cues with a neural network and adapting to the user's personality to form a companion that provides support and coping mechanisms for mental illnesses.

AWARDS AND SCHOLARSHIPS

- **Star Scholar**, UWI Development and Endowment Fund
- Association of Female Executives of Trinidad and Tobago (AFETT)
- CIBC FirstCaribbean International Bank Scholarship