

TARANNUM (TARA) GUPTA

Computer Engineering



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SKILLS

Languages:

Python, C++, C, SQL, Query DSL, Java, Terraform, Matlab, HTML, CSS, VHDL, ARM

Tools:

Amazon Web Services (AWS), Git, Linux, Tableau, JIRA, SOAPUI, Postman, Google Analytics, Google Tag Manager

Other:

Agile, Facilitation Skills, Lean, Six Sigma, Bootstrap, Laravel

PROJECTS

Slack Bot for Hackathon (Natural Language Processing, Python):

<https://github.com/t23gupta/Reach-ecobee>

Won the best User Experience award for building a Slack Bot that returns a list of all common interests with any user

Employee Turnover Prediction (Machine Learning, Python):

<https://github.com/t23gupta/ML-EmployeeTurnoverPrediction>

Leveraged Amazon Machine Learning and Python (pandas and scikit-learn) to predict employee turnover at EllisDon with 86% and 82% accuracy rates respectively, using HR data

Waterloo EngHack Hackathon (Java):

<https://github.com/t23gupta/EngHack-Project>

Collaborated with two group members to develop a Tic-Tac-Toe game

Website (Bootstrap, HTML, CSS):

<https://github.com/t23gupta/Website-on-Dubai-Tourism>

Designed a responsive website on Dubai Tourism

EDUCATION

University of Waterloo 2016 - Present

Candidate for Bachelor of Applied Science in Computer Engineering

ACTIVITIES

Dance Choreographer, UWICA (UWaterloo)
Academic Class Rep (UWaterloo)

WORK EXPERIENCE

Business Intelligence Developer

Jan 2019 – Apr 2019

Ecobee, Toronto, ON

- Developed Machine Learning model to predict user opt-out of DR-events based on thermal discomfort employing Random Forest Classification
- Designed and built data warehouse and data marts in MySQL
- Developed and maintained ETL processes using Python by pulling data from ElasticSearch, Amazon Cloudwatch, S3, BigQuery, MySQL etc.
- Automated AWS infrastructure for ETL deployment using Terraform
- Built automated reporting and analytics visualizations using Tableau

Data Engineer

May 2018 – Aug 2018

EllisDon Corporation, Mississauga, ON

- Built ETL data pipeline by extracting data from third party applications using their SOAP and restful APIs to store it in a Data Lake and a MySQL Data Warehouse using Python
- Deployed the data pipeline in AWS cloud using technologies like EC2, S3, Lambda, RDS, Secrets Manager and Cron and managed networking with Security Groups, IAM Roles etc.
- Collaborated with a multidisciplinary team in an Agile work environment

Reporting Developer/Analyst

Sep 2017 – Dec 2017

TELUS, Toronto, ON

- Developed front end features and graphic design for Scorecard web app
- Analyzed project data using MS SQL implementation in Tableau to compute project completion metrics and identify outliers
- Integrated and wrote PHPUnit tests in Laravel framework for web app
- Presented project progress, roadmap and next steps to Director and VP
- Facilitated resume scanning, question preparation and interviews of future co-op students

Front-End Developer

Jan 2017 – Apr 2017

Pave AI – Automated Analysis, Waterloo, ON

- Created intuitive web UI using HTML and CSS resulting in 10% increment in lead generation
- Incorporated accordions, slideshows, forms, Google Maps with pointers, review feeds etc. using APIs, plugins and widgets
- Prepared guide on goal setup and tracking in Google Analytics and Tag Manager for lead generation and ecommerce websites

Technical Marketing Intern

May 2016 – Aug 2016

Terrazzo Dubai Co. LLC, Dubai, UAE

- Prepared technical report on Fire Testing construction material to obtain Flame Spread Index and Smoke Developed Index
- Analyzed material constituents and its usage for construction in accordance with ASTM E84 standards