Gong (Grant) Cheng

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EXPERIENCE

DATA ANALYST | Genellipse Inc.   Mississauga, ON | 2023

- Developed **Python** scripts to create visualizations of P&C insurance loss development methods using data science libraries; and source-controlled using **Git**.
- Utilized **Python** to generate sample insurance claims for machine learning model to save several months of wait time for real data, and uploaded the sample claims to **MongoDB** for model training.
- Successfully facilitated deployment and debugging of **Python** scripts to an **AWS** S3 bucket for remote and background execution.
- Assisted with **Agile** project management to adjust and monitor project processes, outputs, and deliverables.

DATA ANALYST | Resolution Life US / Genellipse Inc.   Mississauga, ON | 2022

- Codified **Python** scripts for data cleaning on the fields of U.S. death certificates with a high focus on data quality and attention to detail; and conducted 1000+ **unit tests** for field validation.
- Collaborated with senior architect and team to develop and debug a user-friendly insurance payment calculation **React** web app; and version controlled using **Git**.
- Leveraged **Python** for back-end calculations using JSON file from the front-end, and printing the final output; ensured precision, accuracy, and reliability of the script.
- Thoroughly facilitated documentation via **Jira** and **Confluence** to obtain comprehensive and organized project records for efficient knowledge transfer.

RESEARCH ASSISTANT | University of Waterloo Department of Biology   Waterloo, ON | 2019

- Collaborated with professor using the **Linux** command line and **Python** to derive the probability that a given protein sequence has desired properties.
- Uploaded the scripts to a server using **SSH** via PuTTy for remote and background calculation of the probabilities.

PROJECTS

FACE DETECTION ↗   HTML5, CSS3, JavaScript | 2024

- Built and deployed facial detection **React** app.
- Utilized a machine learning front-end API to detect faces via imposing an HTML element on a selected image.
- Deployed a back-end server using **Node.js** and **Express.js** featuring HTTP requests and calls from the front-end.
- Handled data management of users via deploying a **PostgreSQL** database.

CHESS ↗   Python | 2024

- Utilized **object-oriented principles** to instantiate pieces on a chess board.
- Tested functions and classes with a test-driven approach via Python's unittest library.

EDUCATION

University of Waterloo
Honours BMath in Statistics with Co-op 2017-2023

SKILLS

Languages: Python, JavaScript   **Cloud:** AWS
Web: React, Node.js, Express.js   **Terminal:** Git, Linux, SSH