Hanren (Henry) Tu

162 Hillcrest Ave, Toronto, ON M2N 3P1
416-837-9856 | tu.hanren@gmail.com
linkedin.com/in/hanrentu
https://github.com/tuhanren

Software Engineer (Co-op)
Data Analysis | Quality Control | Critical Thinker

Highlight of Qualifications

- **Languages** | Python, SQL, JavaScript, HTML/CSS, Java, C#
- **Tech Stack** | Pandas, BeautifulSoup, Selenium WebDriver, Git, Oracle SQL, MongoDB, Express.js, Angular, Node.js, Linux
- **Knowledge** | Agile, Scrum methodologies, Software design concepts, and patterns
- **Professional** | Collaborative, Punctual, Result-oriented problem solver, and team player

Education

Advanced Diploma: Software Engineering Technology (Co-op)   Sept 2020 - Present
Centennial College, Toronto, ON   *GPA 4.363/4.5*
  Relevant Courses:

Programming I, II	Advanced Database Concepts
Software Engineering Methodologies	Web Application Development
Web Interface Design	Software Systems Design

Culinary Management Diploma   Aug 2014
George Brown College, Toronto, ON

Bachelor of Management: Business Administration   July 2012
Xi'an University of Science, Xi'an, Shaanxi
- Canadian equivalency to Bachelor's degree (four years) by World Education Services

Relevant Experience

Data Analyst
Deep Visum, Toronto, ON | Dec 2017-Aug 2020

- Engaged in development of **AIDataTool**; Scripted SQL code with MySQL for total of 80 application content and functions
- Conducted data validation for 150 tables using Python and MS Excel
- Performed function mapping and code mapping between SQL and Python on MS Excel
- Engaged in web design, including web framework and logo
- Provided programming estimates, identified potential problems, and recommended alternative solutions

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Projects Experience

Python Web Scraping – Extract IMDb movie information   Sept 2021

- Implemented multi-page scraping with Selenium
- Created BeautifulSoup framework to parse and extract movie information
- Stored scraped data into csv/xlsx file using Python built-in function

Python Marketing Campaign Analysis   Sept 2021

- Created fixed market campaign analysis report using Python Pandas DataFrame
- Loaded and merged data from multiple sources; Created summary statistics with Pandas
- Detected and conducted missing value imputation on different variables using sklearn

Database Design – E-commerce Business   April 2021

- Created Entity-relationship model with 6 datasets using Oracle SQL and QuickDBD
- Implemented the database creation with Oracle SQL
- Added sample values and constraints; Tested the database with 4 business requirements by SQL querying

Web Development – Coursework Portfolio   April 2021

- Designed and built site content and graphics with HTML/CSS on Visual Studio Code
- Implemented table generator, photo gallery and form validation with JavaScript functions

Pandas Hands-on(Python E-book of Data Analysis Crash Course)   Jun 2020

- Conducted data validation and code cross-check with Python Jupyter Notebook
- Performed table editing, layout design, graphic design and proofreading with Microsoft Word and Excel

Other Experience

Assistant Manager
Banh Mi Boys, Toronto, ON   Dec 2014 -Nov 2017

- Monitored store operation, ensured smooth service, and reduced labor cost
- Liaised with partners such as Foodora and Ritual for business needs