Julie FLAMENT

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INTRODUCTION

I have a strong interest in data analysis and problem-solving, with experience working with datasets to identify trends and develop insights. I enjoy using data to improve processes, build models, and support decision-making.

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA **May 2025**
BSc in Computer Science, BSc Data Science Minor, GPA: 3.82
Relevant Coursework: *Applied Regression Analysis, Sampling and Design, Stochastic Modelling and Simulation, Numerical Optimization, Machine Learning, Applied Time Series and Forecasting*

TECHNICAL SKILLS & PROJECTS

Programming/Data Science: Python, JavaScript, Java, SQL, R**,** Pandas, NumPy, Seaborn, SPSS
Tools: Git, Docker, Jupyter Notebook
Web Development: React, Node.js, HTML/CSS

Data Analysis Project: https://github.com/ubco-W2022T2-data301/project-group-group18
Used **Python**, alongside **Seaborn**, to analyze a dataset containing information about literacy rates worldwide. Developed statistical models to identify correlations between education levels and economic development. Used **Jupiter Notebook** to perform the analysis.

Data Analysis Project:
Used **SQL** and **Microsoft Excel** to analyze data containing information about products in several factories. Won top analysis project and earned the 'Data Analysis with Databases' badge from UBC Okanagan's COSC 304 course for exceptional project work.

Image Aesthetics Capstone Project: https://github.com/COSC-499-W2024/capstone-project-team-5-003/tree/master
Built a full-stack survey platform with admin/user dashboards for collecting and analyzing image appeal data. Developed a Processing-based generator for customizable geometric images with controlled randomness (shapes, variation, mirroring, etc.). Implemented computer vision via OpenCV to classify shapes (triangle, quadrilateral, ellipse) using contour detection.

Hurricane Tracker: https://github.com/trevorwinser/Hurriscan
Developed a hurricane tracking and forecasting system using wind & temperature data from equatorial Pacific buoys—applied machine learning techniques to enhance prediction accuracy for disaster preparedness.

Human-Computer Interaction: https://github.com/namekeptanonymous/cosc441-group-10
Designed an intelligent cursor system that snaps to keys on a virtual keyboard for improved efficiency on smart TVs. Implemented a touchpad-controlled cursor movement system similar to Apple TV's remote.

RELEVANT EXPERIENCE

COMPUTER SCIENCE, TEACHING ASSISTANT
University of British Columbia **September 2023 – Present**

Mentored and assisted 100+ students in debugging, coding logic, and algorithm optimization. Conduct tutorials, provide detailed feedback on assignments, and support learning in Python and Java.

CODING INSTRUCTOR
Code For Fun **May 2023 - September 2024**

Designed and led interactive coding workshops for 300+ students, covering Python, Scratch, and basic AI concepts. Developed engaging project-based learning modules that increased student engagement in technology.