Willie Coronel Jr

📞 +639762866734　📧 wncoroneljr@gmail.com　in linkedin.com/in/willie-jr-coronel/　○ github.com/ni-lie

Education

University of the Philippines Diliman   Graduated January 2024
Bachelor of Science in Computer Science (GPA: 1.30 / 1.00)   *Diliman, Quezon City*
- **Relevant Coursework:** Software Engineering I & II, Data Structures and Algorithms (C/C++), Computer Programming (Python), Database Systems (MySQL), Operating Systems, Computer Networks, Compiler Construction (Rust), Artificial Intelligence, Data Science

Technical Skills

Languages: Python, C/C++, Rust, MySQL (SQL), JavaScript, HTML, CSS
Tools, Libraries, and Frameworks: Jupyter Notebook, Google Looker Studio, SQL Server Management Studio, Git, Visual Studio Code, LaTeX, Pandas, Matplotlib, Seaborn, BeautifulSoup, Svelte (JavaScript)
Concepts: ETL/ELT pipelines, CAP Theorem, Data Warehouse, Data Lakes, Data Orchestration, Cloud Computing, Operating System, Virtual Memory, Software Layering, Artificial Intelligence, Machine Learning

Experience

Asia United Bank   Aug 2023 – Sept 2023
Data Analyst Intern   *Ortigas, Pasig City*
- Part of the Credit Risk team responsible for the management and analysis of commercial loan scorecards
- Handled commercial loans scorecard data by applying preprocessing techniques to prepare, clean and wrangle data
- Created a python script that streamlines the execution of the created .ipynb file responsible for data cleaning and wrangling across a directory tree of Excel files. This automation solution efficiently processed data and workflows, reducing manual efforts and enhancing team productivity

Asia United Bank   July 2023 - August 2023
Information Security Intern   *Ortigas, Pasig City*
- Created documentation guidelines on secure coding for Java and C developed applications based on OWASP Application Security Verification Standard (ASVS).

Projects

ETL and ELT Pipeline in Python | *(GitHub)*
- Implemented ETL and ELT Pipelines using Python (Jupyter Notebook)
- Used SQLite to store and transform/filter data

Scraping a Multipage Website Plus EDA | *(GitHub)*
- Scraped Hockey Team data from a multipage or paginated website using Python and conducted exploratory data analysis using pandas, matplotlib, and seaborn libraries.

Predicting Team Kill Counts at the 15th Minute in Dota 2 Captain's Model | *(GitHub)*
- Collaborated within a team to develop a predictive model using linear regression with gradient descent optimization for forecasting team kill counts at the 15th minute in Dota 2

Linux-based parallel grep runner in C | *(Github)*
- Designed and created a multithreaded parallel grep runner in C that divides the workload of searching through all file contents in a directory tree among parallel threads

Extracurricular Activities

Workshop on Computation: Theory and Practice (WCTP 2023) | *Hokkaido, Japan* December 4-6, 2023
- Presented my undergraduate thesis on the Tree Poset Cover Problem alongside my thesis partner, showcasing our two formulated approximation algorithms that solve the problem

Philippine Junior Data Science Challenge | *One Esplanade, Pasay City* August 2023 - November 2023
- Analyzed and clustered core mass clients of the Bank of the Philippines Islands (BPI)
- Created a proposal for an internal application that focuses on personalized marketing strategies

Enhack: Hackathon for SMEs | *Enstack, BGC, Taguig City* June 30 - July 2, 2023
- Collaborated within a team of four to develop a mobile application facilitating MSMEs' access to a variety of supply or outsourcing listings from large businesses
- Played a key role in leading the R&D efforts of the project, and took charge of presenting our solution to a panel of judges

Publications

Two Heuristics for the Tree Poset Cover Problem
Willie N. Coronel, Joshua Relucio, Ivy D. Ordanel, Richelle Ann B. Juayong
In Proceedings of the Workshop on Computation: Theory and Practice (WCTP 2023)
https://doi.org/10.2991/978-94-6463-388-7_2