Bishop Crowley

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EDUCATION

Carnegie Mellon University *Pittsburgh, PA* Dec 2023
Bachelor of Science, Double Major in Artificial Intelligence and Music Technology
GPA: 3.70, Dean's List Fall 2023, Spring/Fall 2022

Selected Coursework:

Parallel and Sequential Data Structures and Algorithms, Modern Regression, Deep Learning, Intro to Computer Systems, Functional Programming, Probability Theory for Computer Scientists

EXPERIENCE

Software Engineer Intern, DefenseStorm May 2023—Aug 2023

- Led a self-directed data analysis project using Python (NumPy, scikit-learn, Matplotlib) to build linear and neural-network-based regression models identifying previously unknown client data usage trends. Delivered findings in a 30 page technical report.
- Assisted in the creation of a natural-language data query tool that leveraged chatGPT prompt engineering to allow intuitive client access to targeted datasets.
- Developed Angular UI features from design mockups and fixed backend bugs in a Java web stack.

Undergraduate Research Assistant, Carnegie Mellon University Aug 2022—May 2023

- Assisted Associate Director of Frank-Ratchye STUDIO for Creative Inquiry in development and execution of digital archival asset management including processing, description, arrangement, and publication for scholarly use.

Bishop Ivy Music Project 2018—Present

- 3,000,000+ streams and 500,000 views on TikTok for music under the alias "Bishop Ivy."
- Praised by Rolling Stone, Clash, Metal Magazine, Ones To Watch, Flaunt.
- Signed to Handwritten Records in 2021.

SKILLS

Programming Languages: Python, Java, SQL, HTML/CSS, LaTeX

Tools: GitHub, AWS, scikit-learn, Angular, PyTorch, NumPy, Matplotlib

PROJECTS

Deep Learning Vocal Transformer Spring 2023

- Implemented modified version of CycleGAN for style transfer of audio recordings of singers.
- Gathered and formatted all data and designed neural network architecture.

MyTorch Fall 2022

- Implemented PyTorch neural network modules using NumPy for Introduction to Deep Learning, including: Linear, BatchNorm1d, Conv1d, Conv2d, RNNCell, and GRU.
- Also implemented ConvNeXt module for facial recognition and verification.