Vincent Viray

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EDUCATION

The University of Texas at Dallas, Richardson, TX
M.S. in Computer Science — December 2022
B.S. in Computer Science, **GPA 4.0/4.0** — May 2021

TECHNICAL SKILLS

Languages: Python, Java, SQL, C++, C, R, MATLAB, C#, JavaScript, TypeScript, HTML, CSS, MIPS
Tools: Git, MongoDB, Oracle, AWS EC2, Jupyter Notebook, TensorBoard, Microsoft Excel, PowerPoint, Word
OS: Linux/Unix, Windows 10

WORK EXPERIENCE

Loopback Analytics: Data Analytics Engineering Intern — January 2021-Present

- Translated thousands of lines of Transact-SQL code into PySpark
- Optimized Databricks notebooks, leading to an execution speed increase of ~79%

UT Dallas – Office of Information Technology : Student OIT Help Desk Worker — January 2019-December 2019

- Provided customer service by troubleshooting problems with students, staff, and alumni of varying technological skills
- Collaborated with coworkers to create and resolve tickets for all phone, email, and webchat customer interactions

PROJECTS AND RESEARCH

Slack Integration, Senior Design Project

- Integrated a SAAS company's API and Slack's API to provide real-time company notifications on Slack
- Utilized Slack modals and views to allow CRUD operations on a SAAS company's database directly from Slack

Skills Used: Python, Flask, APIs

Trusted World Inventory Website, Engineering Projects in Community Service

- Built part of the backend REST API to create CRUD operations of the Trusted World Organization client portal

Skills Used: TypeScript, NodeJS, MongoDB, Git

League of Legends Live Match Predictor Website, Personal Project

- Predicted the winner of an ongoing League of Legends match by training a random forest model
- Parsed data on web-scraped data and 11,000 games collected using the Riot API
- Deployed the model as a REST API for model inference

Skills Used: Python, Flask, HTML, CSS, Bootstrap, scikit-learn, Pandas, BeautifulSoup, Selenium, Heroku

Undergraduate Research Assistant (Advanced Networks Lab), Undergraduate Research

- Programmed a Simulated Annealing heuristic and graph generation algorithm for comparative model testing
- Implementing an online convex optimization algorithm to solve a dynamic resource allocation problem

Skills Used: Python, Git, NetworkX, CVXPY

Sleep Heart Health Study, Undergraduate Research

- Generated scatter plots, histograms, and spreadsheets on sleep EEG data of 5804 Sleep Heart Health Study patients
- Computed statistics to find a significant link between EEG frequency bands and slow wave activity in the stages of sleep
- Training a machine learning model to predict if a patient is at risk of hypertension or diabetes

Skills Used: MATLAB

Image Generator, Personal Project

- Designed and trained a Deep Convolutional Generative Adversarial Network with 1,050,112 learnable parameters to generate 128x128 images of anime faces

Skills Used: Python, PyTorch