

Kenneth Myers

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EDUCATION

University of Texas at Dallas

B.S., Computer Science, GPA: 3.79

December 2024

SKILLS

Programming Languages: Python, C#, TypeScript, JavaScript, Java, C++, PHP

Libraries & Frameworks: Angular, ASP.NET Core, Flask, OpenCV, PyTorch, SQLAlchemy

Other Technologies: Azure DevOps, Docker, Git, HTML/CSS, Linux, SQL, Toad DataPoint, Visual Studio

WORK EXPERIENCE

Bank of America (Jersey City, NJ)

Global Technology Summer Analyst

June 2024–August 2024

- Developed a Python command-line tool using SQLAlchemy to automatically identify and fix invalid data in an internal system of record based on composable and hierarchical user-defined business rules
- Found ~5,000 violations with initial pilot rules; projected to find over 20,000 with complete ruleset
- Created an MS SQL Server stored procedure to generate detailed explanatory reports on tedious-to-troubleshoot unprocessed jobs in an internal job queue system
- Explained over 10,000 unprocessed jobs on first run and saved over 3,000 man-hours of investigation

Bell Flight (Fort Worth, TX)

Software Development Intern

September 2021–March 2024

- Designed and implemented a ground-up rewrite of a legacy PHP app with Angular, ASP.NET Core, and EF Core with MS SQL Server
- Contributed over 50% of project volume (both stories and story points) on an Agile team of senior developers
- Led and mentored two high school developer interns, delegating tasks and providing technical guidance
- Migrated legacy web app data from MySQL to MS SQL Server
- Normalized migrated database, reducing table count from 150 to 15
- Containerized rewritten app with Docker; set up containerized hot-reload debugging for team in VS Code
- Containerized and maintained legacy PHP app; pushed crucial fixes and integrated app with new database

PROJECTS

ACM Research

January 2024–Present

A peer-led computer science research program; working presently as a lead and previously a participant

- Presently leading a team in training a state-of-the-art text-music dual encoder by distilling knowledge from synthetic training data
- Used the FOLD-R++ inductive learning toolkit to derive a deterministic ruleset which predicted image class from observer fMRI brain activity with over 96% accuracy
- Optimized stock FOLD-R++ implementation for our dataset after profiling with cProfile and SnakeViz, reducing ruleset generation time from days to a few seconds
- Configured and trained a Vision Transformer with PyTorch to predict fMRI voxels from images, linearly mapping from hidden to voxel space to investigate interpretability and dimensionality of brain image representations

WordHunter

June 2024

A web app that uses computer vision and a trie-based algorithm to solve iMessage WordHunt boards

- Written in JavaScript; uses OpenCV template matching to read boards from webcam
- Viewable at <https://kenmyers.io/wordhunter>

GPT Assistant

April 2023

An enhanced AI assistant based on GPT-3 with multiple interfaces and self-improving capabilities

- Written in Python
- Viewable at <https://kenmyers.io/posts/gpt-assistant>

contrapunct.io

October 2021

A web app that programmatically composes counter melodies with species counterpoint

- Built on a RESTful API made with Python/Flask
- Viewable at <https://contrapunct.io>