Ken Myers

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WORK EXPERIENCE

Bank of America (Plano, TX)
Officer, Global Technology Analyst (Full-Time Software Engineer) *February 2025–Present*

- Built a source-of-truth sync automation that detects 5x more record mismatches than manual check, keeps consistency above 99%, and saves ~6 engineer-hours/week
- Discovered and resolved schema drift between production and development databases, eliminating ad-hoc code tweaks during promotion
- Refactored production Python tool from ~1.4k lines of code to 300; slashed maintenance overhead by removing code duplication, reducing dependencies, and adding structured logging
- Driving migration to vault-managed, single-purpose service accounts to replace remaining shared DB credentials

Bank of America (Jersey City, NJ)
Global Technology Summer Analyst (Software Engineering Intern) *June 2024–August 2024*

- Built a YAML-defined rule engine (Python & Lark CFG parser) to auto-repair invalid DB records; found ~5k in pilot and projected to fix 20k+ with complete ruleset
- Created an MS SQL Server stored procedure to auto-explain 10k+ stuck jobs, saving 3k+ analyst-hours

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 while maintaining legacy app in interim
- Contributed over 50% of project volume (both story count and story points) on an Agile team of senior developers
- Led and mentored two high school developer interns; assigned tasks and provided code reviews
- Migrated legacy data from MySQL to MS SQL Server and normalized schema, reducing tables from 150 to 15
- Containerized new and existing apps with Docker

SELECTED PROJECTS

ACM Research
Peer-led computer science research program at UTD; worked as a participant and a lead

- Led team of 5 in training text-music dual encoders; used a custom synthetic data pipeline to augment a scarce dataset; raised Top-1 accuracy from 50% to 74% (+6 pp over GTZAN-only fine-tune)
- Derived 96%-accurate deterministic rules to predict image class from the fMRI brain scan of an observer using the FOLD-R++ inductive rule-learning toolkit
- Cut FOLD-R++ runtime from days to seconds (100,000x) after cProfile/SnakeViz profiling and targeted refactors
- Trained a Vision Transformer with PyTorch to predict fMRI voxels from images, investigating interpretability and dimensionality of brain image representations

Self-Extending GPT-3 Agent (Apr 2023) | https://kenmyers.io/posts/gpt-assistant
Agentic AI assistant based on GPT-3 with multiple interfaces and self-improving capabilities

- Written in Python and powered by OpenAI's GPT-3 API, Whisper speech recognition, and Porcupine wake-word
- Self-enhancing; the agent wrote its own code to integrate Telegram, email, OS control, and more
- Demoed weeks after AutoGPT's initial release, predating most other agentic frameworks

SKILLS

Programming Languages: Python, TypeScript, JavaScript, C#, Java
Other: Docker, Linux, SQL (MS/Oracle)
Libraries & Frameworks: Angular, ASP.NET Core, Flask, PyTorch, React, SQLAlchemy

EDUCATION

University of Texas at Dallas – 2024
B.S., Computer Science, GPA: 3.8