Keaton Tate

Software engineer with a strong background in computational physics and over 8 years of experience building data solutions for customers.

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WORK EXPERIENCE

Brandow Consulting Corp.

Custom Query Report Writer (Contractor)   Aug 2018 - Present

- Creates inventory report layouts for Fishbowl Inventory management using JasperSoft iReport
- Solves inventory issues for over 60 clients by helping them leverage their existing data through custom SQL queries

Naval Nuclear Laboratory

Radiological Controls Engineer   October 2023 - March 2024

- Migrated internal radiological history database to SharePoint to improve collaboration with NNL sister laboratories
- Provided regulatory review for engineered work and interfaced with Naval Reactors and the Department of Energy
- Qualified Contamination Worker and Radiation Worker according to NAVSEA standards
- Studied in the BRES (Bettis Reactor Engineering School) math and nuclear engineering courses
- Department of Energy L security clearance

EDUCATION

Brigham Young University - Idaho

B.S. in Physics   January 2017 - July 2023

- Data Science Certificate in Machine Learning Fundamentals

SKILLS

Python ●●●●●   C/C++ ●●●●○   Mathematics ●●●●●
Technical Writing ●●●●●   Data Science ●●●○   Web Development ●●●●○

- Technical: Julia, Bash, Lua, Java, Docker, Machine Learning (PyTorch, scikit-learn), High Performance Computing, Data Visualization (Pandas, Polars, Streamlit, BI), Spark, DataBricks, SQL, HTML, CSS, PHP, JavaScript, Linux
- Interpersonal: Conflict Management/Resolution, Customer Service, Project Management, Group Documentation Writing, Poster and Professional Presentation Sessions with Q&A, Tutoring and Mentoring

PROJECTS

Event Horizon (GMTK 2024 Game Jam)   August 2024

- Wrote a web game with friends in 96 hours using the Godot engine

XGBoostRegressor Streamlit Dashboard   July 2023

- Runs an XGBoostRegressor model on user-uploaded data
- Assignment for a Data Science course to take in Seattle housing data and predict pricing

Thesis - Simulating Solid Phase Transitions in Dense Lithium   December 2022

- Ran DFT calculations in VASP using the BYU Fulton supercomputer
- Learned HPC debugging, Bash automation, SLURM job management, model fitting, literature review, and thermodynamics

BYU-Idaho High Altitude Research Team   Summers 2017-2020

- Team lead for a group of students designing and flying experiments on stratospheric balloons