Daniel Folino Haendler

Boulder, CO | LinkedIn | +1 (720)-757-7629 | danielfolino01@gmail.com | Personal Website

SKILLS & INTERESTS

Skills:C, C++, Python, Scala, Bash, Git, GitHub, Docker, Agile, OOP, Data Structures, Algorithms, Linux Networking, Full-Stack Development, RESTful API, Node.js, CSS, SQL, NoSQL, Matlab, ML, AI, LLM, Azure

EDUCATION

University of Colorado Boulder, College of Engineering and Applied Science **Boulder, CO**

Bachelors of science in Computer Science and Chemical Engineering (GPA: 3.76/4.0) *August 2020 – May 2025*

- Majors: Computer Science, Chemical Engineering, Minors: Chemistry and Mathematics
- Organizations/Awards: Honors Program, Dean's Honors List
- Technical GPA: 4.0/4.0

WORK EXPERIENCE

University of Colorado Boulder, Chemical Engineering Department **Course Assistant**

Course Assistant *August 2024 – December 2024*

- Collaborated with Professor Wendy Young to facilitate lectures and laboratory sessions, integrating cutting-edge chemical engineering concepts and contributing to a 20% improvement in overall course performance.
- Provided individualized and group tutoring to over 40 students, which improved comprehension and exam scores by 30%.
- Developed and distributed supplemental instructional materials that increased student engagement by 25%.
- Assisted with course logistics, including grading and feedback processes, reducing turnaround time by 15%.

Outlier AI **Boulder, CO**

Freelance Prompt Engineer *May 2023 – August 2023*

- Engineered and refined advanced prompt templates for large language models in a Linux-based development environment, improving response accuracy by 25%.
- Streamlined optimization workflows through iterative testing, data analysis, and Agile practices, reducing iteration time by 40%.
- Analyzed performance metrics to fine-tune prompt responses, achieving a 15% reduction in error rates.

PROJECT EXPERIENCE

Financial Market Predictor **Boulder, CO**

Machine Learning Developer *January 2025 – Ongoing*

- Developed a financial market prediction tool using Kaggle datasets (ETFs, hedge funds), achieving 89% accuracy with AdaBoost and Random Forest.
- Enhanced model performance by fine-tuning hyperparameters and feature selection, reducing errors by 15%.
- Conducted cross-validation and statistical analyses, decreasing variance by 20%.
- Integrated data visualization for clear market trend insights.
- Collaborated with multidisciplinary teams for model validation and compliance.

Mancala Game Agent **Boulder, CO**

AI Developer *January 2025 – Ongoing*

- Developed an AI agent for the game Mancala, achieving an 85% win rate using Minimax algorithms and Alpha-Beta pruning.
- Optimized heuristic functions to reduce decision-making latency by 40%.
- Conducted extensive simulations to refine gameplay strategies and enhance agent robustness.
- Implemented analytics to continuously monitor and improve AI performance

California Wildfire Prediction **University of Colorado Boulder**

Computational Analysis *January 2024 - Ongoing*

- Utilized numerical methods including Lagrange polynomials and extrapolation techniques to analyze California wildfire data, achieving a 92% confidence in predictions.
- Developed predictive models to accurately identify peak wildfire risk periods, achieving an 88% accuracy by leveraging detailed historical data analysis.
- Evaluated wildfire trend data comprehensively, significantly improving risk mitigation strategies and enhancing planning efficiency by approximately 30%.
- Created interactive and intuitive data visualizations to effectively communicate complex predictive insights to support informed decision-making.