

# Robert Swetland

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Highly skilled and experienced Senior Software Engineer with a proven track record of designing and developing complex software solutions. Proficient in multiple programming languages and technologies, with expertise in system architecture, database management, and software development methodologies. Strong leadership abilities with a talent for mentoring junior engineers and collaborating with cross-functional teams to deliver high-quality products on time and within budget. A strategic thinker with excellent problem-solving skills and a commitment to continuous learning and innovation in the ever-evolving field of software engineering.

## Skills

- Solving complex problems in a high stress environment
- Translation of business problems into technological solutions
- Cross functional team development and management
- Full stack software engineering
- Data Science and Machine Learning
- Data Engineering and Data Pipelines
- Artificial Intelligence Systems
- Network Administration
- Systems Administration

## Work History

August 2024 -  
Current

### Independent Contractor

*Outlier, Remote*

I specialize in contract work with Outlier, focusing on fine-tuning Large Language Models (LLMs) using RLHF and SFT methodologies applied to mathematical and physics domains. My role includes optimizing model performance and enhancing accuracy through iterative learning processes.

May 2021 - March  
2024

### IT Manager / Senior Software Engineer

*Valley Family Health Care*

- Identified process improvement opportunities to enhance operational effectiveness and improve enterprise productivity.
- Built, managed, and develop IT Hardware and Software teams, provide coaching and mentorship, conduct performance evaluations, and establish inclusive work cultures
- Coordinate with cross-functional teams to identify process gaps and develop solutions.
- Managed IT infrastructure and systems, including network administration, security protocols, and cloud services, to ensure continuous operation and optimal performance.
- Spearheaded the migration of legacy systems to modern technology stacks, reducing maintenance costs and increasing system reliability.
- Collaborated with cross-functional teams to design and deploy custom software applications tailored to meet specific business needs and requirements.
- Won Rookie of the Year award in 2019 for managing and implementing conversion from an on premises EMR (Intergy) to a cloud based EMR (OCHIN EPIC)

February 2019 -  
March 2020

### Software Engineer

*PSX Digital, Oregon*

- Created and ingested APIs assuring secure cross application communication
- Created business analytics expansions, including modernization of legacy code and creation of highly interactive graphical reporting modules
- Collaborated with cross-functional teams to troubleshoot and debug software issues in a fast-paced Agile environment
- Implemented machine learning algorithms to optimize

# Technical Skills

## Languages & Scripting

- Python (NumPy, pandas, scikit-learn, matplotlib, seaborn, TensorFlow, PyTorch)
- SQL, Bash, PowerShell, JavaScript, HTML5, CSS3
- C#, PHP, VB (6.0–12), ColdFusion (4–10), Dart, jQuery
- XML, CSHTML (Razor)

## Data Science & Machine Learning

- Python for Data Science and Machine Learning
- Statistical Analysis, Hypothesis Testing, A/B Testing
- Regression, Classification, Clustering, Time Series Forecasting
- Deep Learning (TensorFlow, Keras, PyTorch)
- Unstructured and Unsupervised Learning (PCA, t-SNE, Autoencoders)
- Computer Vision (CNNs, Transfer Learning, OpenCV, Image Classification)
- Foundational Modeling and Experimentation (ANN)
- Recommendation Systems, Network and Graphical Models
- Predictive Modeling and Decision Support Systems
- EDA and Feature Engineering
- Model Deployment (Streamlit, Flask)

## Data Engineering

- ETL/ELT Pipelines
- Hadoop, Apache Spark, PySpark
- Structured and Unstructured Data Processing
- Data Warehousing (Snowflake,)
- Data Lakes and Lakehouses (S3, Delta

performance and efficiency of data processing systems

- Designed and developed scalable web applications using technologies such as JavaScript, React, and Node.js

*May 2015 - January 2018*

## Senior Software Engineer / Systems Administrator

*Basic Engineering, Idaho*

- Introduced and spear-headed the adoption of a modified agile development model to dramatically increase stakeholder satisfaction and limit scope creep.
- Responsible for the production of BI analytical tools for consumption by users of varying technical proficiencies.
- Responsible for maintenance, extension and modernization of legacy codebase of over 6 million lines of code.
- Introduced and spear-headed multi-year project of conversion of legacy mySQL connections and queries to fully abstracted PDO.
- API Development to facilitate integration to third-party software applications
- Led a team of software engineers in designing and developing scalable and reliable systems architecture for a high-traffic web application
- Collaborated with cross-functional teams to design and implement security measures, resulting in successful completion of multiple security audits and compliance certifications

# Education

## Master of Science in Data Science AI/ML

*University of Colorado Boulder, Boulder, CO | Expected in 2027*

## BS Physics / BS Engineering in Physics / Engineering Physics

*Oregon State University, Oregon | June 1999*

Undergraduate study in Physics/Engineering Physics with a minor in applied Physics.

Undergraduate thesis subject: Vibration isolation and analysis using Piezoelectric Accelerometers.

Extra Activities: Active member in Society of Physics Students (SPS), laboratory assistant/research assistant/work study in laser physics lab, assisted in taking of departmental inventory, construction and development of optics lab curriculum including development and testing of apparatus used in the senior level optics course under the supervision of Dr. D. McIntyre, Associate professor of Physics at Oregon State University.

- Message Queues (Kafka – introductory level)

### Databases

- PostgreSQL, MySQL, SQL Server, Oracle, MongoDB
- NoSQL Systems, Data Modeling, Query Optimization

### Cloud & Virtualization

- AWS (S3, Lambda), Azure
- Docker, Kubernetes (basic usage), VM Cloud Director, Hyper-V, VMWare

### Operating Systems

- Server: Windows (NT – 2024), Linux (Ubuntu 12.04 – 22.04 LTS), CentOS (5–7), UNIX

- Desktop: Windows (3.1 – 11), macOS (4 – 16), Ubuntu – Advanced

### Version Control & DevOps

- Git (GitHub, GitLab, Bitbucket), Azure DevOps, Team Foundation
- CI/CD (GitHub Actions, Jenkins, Azure Pipelines)

- Agile, SCRUM, ITIL4, JIRA

### Networking

- TCP/IP, SFTP, VPN, MPLS, Static Routing (L2/L3)

- Equipment: Cisco, Juniper

### Frameworks & Tools

- SharePoint (Services – O365), Kendo UI, Flutter, Bootstrap (through v4), Laravel
- Jupyter, VS Code, PyCharm, Adobe CS Suite, SolarWinds RMM, PDQ Deploy

## Certifications

Foundations of Data Structures and Algorithms Specialization University of Colorado 2025

Prompt Engineering Specialization Vanderbilt 2025

Applied Data Science: Python University of Michigan 2025

Generative AI Engineering Professional Certificate IBM 2025

Professional Certificate: Data Science and Machine Learning MIT 2024

Advanced Network engineering Washington State University December 2013

Advanced Robotics MIT December 2013

Adobe Photoshop Masterclass Adobe August 2008

Intellectual Property in Cyberspace Harvard December 2000