

# Justin Hatch

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Seeking roles in Data Science, Machine Learning Engineering, and Backend Software Engineering.

## EDUCATION

UNIVERSITY OF OREGON

Eugene, Oregon

**B.S Computer Science** - Specialization in Data Science, Machine Learning, and AI

SEPTEMBER, 2022 - June 2026

- **Dean's List** | GPA: 3.66
- **Activities:** DSCI Club, Oregon Software Consulting Group, Oregon Blockchain Group, Quack Hacks II
- **Relevant Courses** - Data Science I-II, Stats for Data Science, Probabilistic Methods in AI, Machine Learning, Data Mining,, Database Processing, Calculus I-II, Discrete Math I-II, Linear Algebra I-II, Data Structures, Algorithms, Operating Systems, C/C++, CS I-III, Computer Organization, Digital Forensic.

## PROFESSIONAL EXPERIENCE

**Oregon Blockchain Group** - UNIVERSITY OF OREGON

EUGENE OREGON

Software Developer

October, 2025 - Present

- Contribute to a student-led engineering group delivering production-grade blockchain and software solutions.
- Research emerging on-chain frameworks, decentralized architectures, and Web3 technologies to support partner engineering needs.

**Software Consulting Group** - UNIVERSITY OF OREGON

EUGENE OREGON

Jr Software Developer

October, 2025 - Present

- Developed an AI-powered stock analysis web platform using **Flask, MySQL, OpenAI APIs**
- Built backend **ETL data pipelines, ML-driven insights, REST APIs**, and automated ingestion workflows.
- Containerized and deployed full-stack application on **AWS App Runner** for scalable production deployment.

**UNIVERSITY OF OREGON HOUSING ADMINISTRATION**

Eugene Oregon

Student Business Operations Assistant

October, 2023-Present

- Specialized in data entry for over **70 vendors**, ensuring accuracy and completeness.
- Reconciled and audited cash for more than **20 dining vendors**, maintaining financial accuracy and integrity.

## SELECTED PROJECT

**Evergreen Capital** - QuackHacks 2 Hackathon — 1st Place (Solana Track), 2nd Place (Polymarket Track) - Python, Solana, LLM Agents

- Designed an AI-driven decentralized hedge fund using **Polymarket API, multi-agent LLM decision systems, and Solana-based staking**.
- Designed a **six-agent Gemini debate** system for market research, proposal evaluation, and autonomous trading.

**Monte Carlo Stock Price Simulator (Black-Scholes GBM)** — Python, Pandas, Streamlit

- Implemented Black-Scholes GBM-based Monte Carlo simulations to model stock price paths for prediction and scenario testing.
- Built a Streamlit dashboard for interactive experimentation, letting users choose tickers, set simulation parameters, and visualize expected prices, confidence intervals, and outcome distributions.
- Designed modular code for data ingestion, log-return computation, parameter estimation, and simulation to enable rapid iteration and future model extensions.

**Evaluated Machine Learning Models for Customer Churn Prediction** — Supervised ML Classification - Python

- Performed **data cleaning, feature engineering, EDA**, and applied multiple ML models (Decision Trees, KNN, SVM, MLP).
- Improved performance with **hyperparameter tuning and model validation**.
- Achieved **91% accuracy**, enabling proactive churn detection.
- Authored a technical report covering methodology and performance analysis.

**Intel Sustainability + GRAMMY U A/B Testing** - Data Analytics, Excel, Statistical Analysis

- Analyzed Intel sustainability data to identify high-ROI improvements and presented actionable insights.
- Conducted a statistically rigorous **A/B test** to determine the best CTA button for increasing GRAMMY U membership.
- Delivered narrative-driven visualizations aligned with industry reporting standards.
- Completed as part of the **Global Career Accelerator** program.

**Freelance AI Annotation Work**

- Produced high-quality screen-recorded demonstrations using **OBS** to train AI models on Microsoft Office workflows.
- Created detailed task walk-throughs with step-by-step reasoning and instructional clarity.
- Reviewed and annotated system-captured actions, providing structured “thought-process” explanations to improve LLM reasoning.

## SKILLS AND CERTIFICATION

- **Programming:** Python (NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, PySpark), SQL, C, C++, JavaScript, HTML/CSS
- **Frameworks & Tools:** Flask, FastAPI, Streamlit, Docker, Git/GitHub, Linux, AWS, Power BI, ChatGPT, Claude, Base-44, Lovable
- **Data & ML:** Data Analytics, Feature Engineering, Predictive Modeling, A/B Testing, Data Visualization, ETL/ELT
- **Databases:** MySQL, PostgreSQL, SQL schema design
- **Certifications:** [Associate Data Engineer in SQL](#), [Intel - Data Visualization](#), [OpenAI - AI Professional Skills](#), [Intercultural Skills](#)