Aaron Glasenapp

SR. SOFTWARE ENGINEER | DATA SCIENTIST | TECHNICAL LEADER

Professional Summary

Seasoned and versatile software engineer and data scientist with a strong foundation in mathematics and system architecture. Proven ability to design and implement complex, scalable multi-layered software systems, solve hard problems through critical thinking, creativity, leadership and communication among diverse teams. Passionate about growing as a data leader, leveraging data to uncover insights, create practical visualizations, tell compelling stories, and drive impactful decisions.

Skills & Technologies

Ruby on Rails, Elixir, Python (Pandas, Numpy, Scikit-Learn, Matplotlib, Jupyter), SQL (PostgreSQL, MySQL), GraphQL, ORMs (Active Record, SQLAlchemy), REST API Development, Functional & Object Oriented Programming, Geospatial (Geopandas, PostGIS), Regression, Classification, Machine Learning (Linear, Multiple, and Polynomial Regression, Decision Trees, Random Forests, Gradient Boosting), Time Series, ETL Pipelines, HTML, JavaScript, Highcharts, CI/CD, DevOps, Version Control, Git, Docker, Linux, Server Management, Azure, Authentication (OAuth, WebAuthn), Test Driven Development, Scaled Agile Framework (SAFe), System Architecture

Employment History

Data Analyst, Data Annotation Tech

DECEMBER 2024 — PRESENT

- Develop complex STEM and coding projects to challenge AI models.
- Prompt engineering for advanced math and reasoning problems.
- Evaluate AI-generated code and reasoning for accuracy and safety, refining and improving AI models' ability to reason and to write code.

Sr. Principal Software Engineer, Itron Inc, Denver

NOVEMBER 2014 — JUNE 2023

- Designed, built and maintained scalable, high-performance, and highly secure enterprise web applications for utilities, involving multiple layers of software, hardware, firmware, databases and APIs.
- Built ETL pipelines for utility data (load forecasts, load drop, weather, etc.) and customer data (power usage, solar generation, EV charging data), feeding data visualization dashboards for utilities and customers.
- Architected and led technical initiatives to obtain OpenADR certification, and compliance with NERC/CIP (Critical Infrastructure Protection) standards for utilities controlling hundreds of megawatts of power.
- Built and managed CI/CD and test pipelines, facilitated security audits, managed cloud and hosted resources (servers, databases, networks).
- Collaborated with cross-functional teams including QA, software, firmware, product, management and external partners, facilitating diverse stakeholders to achieve shared business goals.
- Known for excellent leadership and technical skills.

Secondary Math Teacher, Mapleton Public Schools, Denver

AUGUST 2011 — JUNE 2014

- Taught high school algebra, including instruction, assessment, management, supporting special education and English language learners.
- Created engaging lessons and projects for low income students while adhering to common core and other curriculum standards.

Projects

Climb Wise

DECEMBER 2024 — PRESENT

A data science and geospatial exploration of rock climbing data. Predicts success/failure and number of attempts on climbing routes. ETL pipeline to load climbing and GPS data into Postgres/PostGIS, display maps for climbing areas & trails. Possible expansions to include a recommendation engine for climbing areas/routes, climbing specific weather forecast and analysis, using GIS data to infer additional data such as rock type from bedrock geology map layers.

https://github.com/glassbead0/climb_wise

Apollo Photography

NOVEMBER 2024 — PRESENT

A Ruby on Rails app to sell photography from my recent sabbatical traveling around the US and Canada. This highlights both my experience building web applications, and my diverse experience in the outdoor world. While this is a personal project, it is designed to be a scalable framework for other photographers/artists to use.

https://github.com/glassbead0/apollo_photography

Education

HarvardX

NOVEMBER 2024 — DECEMBER 2024

Verified Certificates in the following online courses on the EdX platform.

- **Machine Learning and AI with Python** covering Decision Trees, Random Forest, Bagging, Gradient Boosting, Adaptive Boosting. Verified Certificate
- **Intro to Data Science with Python** covering linear, polynomial, logistic regression, cross validation, hyper-parameter tuning, confidence intervals, model selection, ROC curve analysis, bias and variance. Verified Certificate

DaVinci Institute

JUNE 2014 — SEPTEMBER 2014

13 week bootcamp: Building the toolbelt of a Jr. Ruby on rails Engineer

MA, University of Denver, Denver, CO

AUGUST 2010 — MAY 2011

MA in Curriculum & Instruction. Intensive teacher education program with a focus in urban education.

BA, University of Colorado, Boulder, Boulder, CO

AUGUST 2005 — MAY 2009

BA in mathematics with a minor in astronomy. Held roles as a teacher's assistant and tutor for various undergraduate level math students.