Christopher Caston

Denver, CO

chrisjcaston@gmail.com | linkedin.com/in/christopher-caston | https://chriscaston.github.io/

Professional Summary: Software Solutions Engineer with a strong foundation in Statistics and Data Science, bringing 4+ years of Python programming experience across academic and professional environments. With 2 years of professional software engineering experience in Agile teams, I specialize in designing, building, and optimizing applications, and excel at transforming complex problems into functional software solutions. Proven ability to enhance system performance, build APIs, and communicate technical insights to stakeholders. I'm especially excited to put my expertise with machine learning frameworks and data analysis skills to work, building data-driven solutions that provide valuable insights and drive meaningful impact.

EXPERIENCE

Nextworld LLC   Greenwood Village, CO

Application Developer 1   *February 2023 – February 2025*

- Developed and implemented Python-based automated testing frameworks and custom workflows, substantially increasing API reliability and streamlining integration processes.
- Translated direct customer feedback into actionable feature enhancements, driving product usability improvements and ensuring solutions were aligned with user needs and business objectives.
- Designed and developed features for complex enterprise workflows, including critical components for sourcing rules, inventory, and supply chain management.
- Built comprehensive software solutions that streamlined core sales and order fulfillment processes, significantly improving efficiency and operational flow for business-critical functions.
- Consistently delivered high-quality software solutions within Agile sprints, collaborating cross-functionally with product owners and engineering teams to define requirements and achieve sprint goals.
- Engineered and implemented complex system integrations, enabling seamless end-to-end functionality across diverse platforms and enhancing overall application capabilities.
- Optimized application performance through code enhancements and bug resolution, significantly improving system stability and responsiveness for enterprise-grade solutions.

Laboratory for Interdisciplinary Statistical Analysis (LISA)   Boulder, CO

Statistical Collaborator, CU Boulder Program   *August 2021 – December 2021*

- Leveraged Python, R-studio, and statistical software to analyze complex datasets, identify key trends, and interpret results, effectively communicating actionable insights to non-technical business stakeholders.
- Collaborated on diverse data science projects, providing end-to-end support from experiment design and data collection to statistical analysis and compelling data visualization.

SKILLS

Programing Languages: Python (Advanced), R, SQL

AI/Machine Learning: Deep Learning, Pattern Recognition, Scikit-learn, TensorFlow/Keras

Data Analysis and Visualization: Pandas, NumPy, Matplotlib, Seaborn, Statistical Analysis, Data Visualization

Cloud & Development Tools: Git, Agile Methodologies, API Development & Testing

Soft Skills: Technical Communication, Problem Solving, Collaboration, Agile Teamwork, Adaptability, Quick Learner

EDUCATION

University of Colorado at Boulder   Boulder, CO

Bachelor of Arts in Statistics and Data Science   August 2017 – May 2022

Minor in Geographic Information Systems (GIS)

- **Relevant Coursework:** Machine Learning, Data Structures, Spatial Analytics, Markov Processes, Stochastic Analysis in Finance, Time Series Analysis, Data Streaming, Pattern Recognition.