Christopher J Caldarella

Data Scientist

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Data Scientist with 6+ years of experience both in Information Technology and Culinary disciplines. I have experience with and a thorough understanding of Python as well as use of Python Data Analytics Libraries with a proficiency in Exploratory Data Analysis and Cleaning Data. I am fascinated by a good challenge, and I am always willing to dive into a problem to look for a great solution. My love for music and food is only to be outdone by my passion for problem solving and coding.

SKILLS

Python | SQL | HTML | CSS | JavaScript | C# | Ruby | Scikit-Learn | TensorFlow | Keras | GPU-enabled ML Pandas | NumPy | SciPy | StatsModels | Matplotlib | Plotly | Seaborn | Inferential Statistics | Sampling | Hypothesis Testing | Confidence Intervals | Probability | Bayesian Statistics | Regression | Classification | Feature Engineering | Predictive Modeling | Forecasting | Clustering | Neural Networks | NLP | Data Visualization | Data Aggregation | EDA | Data Cleaning | Data Analysis | Feature Engineering | SQL | JSON | XML | Relational Databases | Web Scraping | Selenium | Beautiful Soup | Git | Flask | Scala | Spark | SpaCy | AWS | OOP | Microsoft Excel | Microsoft Office | Docker | Jquery | Bootstrap | Bash | Win32 | scripting | PowerShell | SharePoint | PowerApps

EXPERIENCE

Data Science Fellow | *General Assembly* | Remote | Mar–Jun 2021
Successfully completed 480+ hours of expert led instruction in Data Aggregation, Cleaning, Analysis, and Data Engineering and hands-on learning of Python and the fundamentals of many data-analysis libraries, including some of the industry's most in demand technologies, like TensorFlow, Keras and ScikitLearn. Performed Exploratory Data Analysis and rigorous Cleaning to develop projects, including:

- **ToddlerTracker:** Using a Raspberry Pi computer and camera attachment, create a device that recognizes and tracks my son using Convolution Neural Networks and Transfer Learning (possibly implement Video Calling via Google Duo).
- **Air quality analysis in Cleveland, Ohio:** Group project where we analyzed the air quality index in Cleveland, Ohio.
- **Predicting electricity usage in North Carolina:** In a one-day project, I used Time-Series analysis to predict electricity usage in North Carolina.
- **Classification and Bayesian Analysis of Similar Reddit Posts:** Compared over 20K comments from two subreddits (*AMA* and *AskReddit,* with obvious words removed) using multiple methods to determine best predictive quality, including: Logistic Regression, K-Nearest Neighbors Classifier, Gradient Boosting, Ada Boosting, Decision Tree, Bagging Classifier, Random Forest Classifier, Ensemble Voting, and Multinomial Naive Bayes Models (with and without lemmatization) with an accuracy of 71.08% with entirely new data.
- **Predicting Housing Prices in Ames, IA:** Examined over 2000 observations from the Ames,IA housing market between 2006 and 2010. Created a predictive model with an R^2 Score of 0.9636.

Staging Specialist | *NCR - Northeast Depot* | Concord, NH | Dec 2020–Mar 2021
NCR Northeast Depot is one of five locations in North America where equipment is stored, staged, and shipped to customer locations for installation

- Led hardware and software upgrades for Northeast Depot, a storage, staging, and shipping site for Restaurants and bars in the Northeast region
- Created tools in Python to assist with migration to new software for On-Time delivery
- On-Time delivery of equipment to all Restaurants in Northeastern Region of the country with staff of 3
- Implemented process of using Kanban and a system of creating customer "packets" to anticipate sudden schedule-changes, allowing quick setup and shipment
- Built and maintained corporate Images by building off the hardened baseline-image and tailoring to large clients to ensure quality and consistency as well as increasing efficiency
- Managed project delivery details, including Shipping, Delivery, and Installation Dates as well as Staging with five Project Leads to ensure 100+ clients received high quality product on time
- Built team camaraderie by supporting the staging team and the shipping/receiving departments and creating clear channels of communication between the two
- Organized department and processes to streamline system setup and delivery.
- Implemented Software and Hardware configurations for 3rd Party Applications, including Paytronix, and GiveX
- Implemented Software configurations for NCR Products using my installation experience at NCR Rocky Mtn, including but not limited to: Aloha POS, EDC, Aloha Manager (AM), Configuration Center (CFC), Command Center (CMC), Connected Payments, Aloha TakeOut (ATO), Aloha Transaction Gateway (ATG), Aloha Mobile, MobilePay, Aloha Guest Manager (AGM), Radiant Auto-Loader (RAL) Softwares
- Implemented Hardware configurations for NCR Products using my experience at NCR Rocky Mtn, including but not limited to: File-Servers, POS Terminals, Orderman, iPad, and Ingenico M70 Mobile Devices, Barcode Scanners, USB, IP, and Serial receipt printers and kitchen printer, MSR Devices, Cash Drawers, and other Hardware

Escalation Technician / Customer Engineer II | *NCR - Rocky Mtn* | Arvada, CO| Feb 2019–Nov 2020
NCR Rocky Mountain is one of five locations in North America where equipment is stored, staged, and shipped to customer locations for installation. This location also employs a branch of the Help Desk.
- Led training and served as escalation point for technicians at all levels including new hires
- Completed the Qdoba Software Upgrade project by supporting the client through a company acquisition and delivering outstanding customer service.
- Created installation 'wrapper' in C# that resulted in smooth automated-deployments for Qdoba Software Upgrade project
- Created Historical Data-Transfer Tool in C# that decreased transfer task time in half (on average) by creating a Background task to pull Data all at once
- Created a new Hardware Setup Tool in C# to replace an old batch-file with a GUI which increased productivity by decreasing transfer time by integrating compatibility with my Historical Data-Transfer Tool
- On-Site Installation of hardware as previously mentioned (both *Individually* and as part of a *Team*)
- Troubleshoot Computer and Network issues while On-site including testing for wiring issues, resolving IP Address conflicts, identifying Transaction Log corruption for possible repair during non-business hours
- Utilized Python skills using Beautiful Soup to Web Scrape old Wiki for Migration to SharePoint, PowerApps

Reconciliation Specialist / Installation Specialist | *BEC* | Arvada, CO | Jul 2014–Feb 2019
One of the Largest Aloha POS Third-Party Resellers and location who provided Hardware, Installation, and Technical Support to over 1200 clients in the Denver Area, before being acquired by NCR Global.

- Organized, scheduled, and assisted with upgrades to ensure clients are PCI-Compliant
- Assisted with Soft-Deployments and QA process in Qdoba Software Upgrade project; used expertise for technical support when needed
- Acted as a bridge between NCR and Qdoba to ensure delivery beyond expectations
- Maintain credit-card processing environment to review and compile credit card data
- Fixing Errors in non-cash financial records, determine financial loss, and perform reconciliations
- Assist Major Account Clients with issues and delegating such projects as Major Accounts Technician
- Communicate progress of client-issues to Major Accounts groups
- Created Automated Report-Forwarding tool in C# which helped Product Managers and increased Help Desk productivity with its easy to use User Interface, and simple backend functionality
- Created Help Guide and Wiki Document for Automated Report-Forwarding tool to ensure peak productivity
- Maintained Help Desk Technician Duties while doing all of the above
- Increased efficiencies by maintaining Ruby and Batch-File tools for the Help Desk by identifying changes in Windows and Aloha software and updating these tools to continue working with these changes
- Increased efficiencies by creating new Ruby and Batch-File tools for the Help Desk by identifying what could be automated in day-to-day operations
- Trained and taught new hires troubleshooting methods for the Help Desk
- Earned at least 3 "*Employee of the Month*" Nominations in the 15 months it was implemented for my skills creating and modifying tools and being helpful to others.

Cook I, Learning Coach | *Elway's at the Ritz Carlton*| Denver, CO | 2008–2014
Elways is a Steakhouse located inside the Ritz Carlton Hotel in Denver, Colorado
- Created and presented Safety Documentation
- Trained new employees

IT & Web Development | *Deerwoods Real Estate Management* | Denver, CO | 2008
Deerwoods Real Estate Management provides Management services in Denver, Colorado for properties both commercial and private.
- Setup domain and website with an Internet Domain Registrar using HTML, CSS, Javascript, ASP, and MS-SQL

EDUCATION

Certificate, Data Science Immersive| *General Assembly* **|** Remote **|** 2021
Certificate, ScrumMaster | *Scrum Alliance* **|** Denver, CO **|** 2020
Bachelor of Science, Electrical and Computer Engineering | *Rutgers School of Engineering* **|** New Brunswick, NJ **|** 2004