

Zachary Chiodini

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EXPERIENCE

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| Python Developer | 09/2019 – Present |
| Tredence, Inc. Bethesda, MD | |
| <ul style="list-style-type: none">▪ Developed Python and SQL code to automatically clean, wrangle and validate messy and convoluted data across databases containing millions of records▪ Delivered 2.5-thousand-line user-friendly program that automates a monthly process, reducing processing time from several days to several hours▪ Worked independently with stakeholders at the Marriott International Headquarters' Sales Department to identify pain points and requirements, and design workflows▪ Managed offshore recourse for program testing and manual processing during development | |
| Data Analytics and Data Science Intern | 06/2019 – 09/2019 |
| Tredence Inc. Alpharetta, GA | |
| <ul style="list-style-type: none">▪ Applied Python, R, SQL, Tableau MS Excel and machine learning algorithms for data manipulation, data analysis, data wrangling and data visualization▪ Studied statistics, probability and hypothesis testing▪ Created sales forecast for case study by wrangling 220,000 rows of data, correcting for data discrepancies and time series analysis | |
| Research Assistant | 06/2015 – 06/2019 |
| New Mexico State University Las Cruces, NM | |
| <ul style="list-style-type: none">▪ Engineered next-generation ion mobility spectrometers from design to assembly for applications in national security and space exploration▪ Applied Lua and SIMION to simulate 3D mathematical models and test hypotheses on ion optics in novel chemical instrument and fragmentation system designs▪ Analyzed experimental and synthetic data in Python and MS Excel to validate commercial and prototype instruments, evaluate simulation modeling and present results▪ Innovated Draper Laboratory's microAnalyzer to accept large ions, assured quality of Rapiscan Systems' Itemizer and modeled instruments for IARPA and MicroPen Technologies | |

EDUCATION

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| MS Physics | 12/2019 |
| New Mexico State University Las Cruces, NM | |
| Activities : Graduate Teaching Assistantship | |
| Coursework: Advanced Computational Physics, Artificial Intelligence, Database Management Systems, Python Programming, R Programming, Systems Engineering | |
| BS Physics and Chemistry, Minor in Biochemistry | 05/2017 |
| New Mexico State University Las Cruces, NM | |
| Awards : Marie Heaton Award, Gale A. Harvey Endowed Scholarship | |
| Activities : Peer Education Program, Peer Learning Assistant Program, Sigma Pi Sigma National Physics Honors Society, Supplemental Instruction Program, UPN Scholar | |

CERTIFICATIONS

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| SnowPro Core Certification | 06/2020 |
| <ul style="list-style-type: none">▪ Demonstrated knowledge of Snowflake as a cloud data warehouse | |