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Nick Nielsen

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Tendril Networks, Inc Boulder, CO

Data Scientist PRESENT **Orchestrated Energy** Jun 2017

 Took on a dual Software Engineering and Data Science role to build scalable, sustainable data science applications

 Designed and implemented AWS serverless architecture to surpass 10x scalability targets while reducing operating costs by over 90% and machine learning runtime by over 50%

- Built and launched the first 3rd party partnership with Google Nest, tripling the target market
- Architected queue-based machine learning systems
- Led a cross-functional science & engineering team to improve operational excellence

C2 Consulting Hingham, MA

Consultant AUG 2016 **Oracle Technologies** JUN 2015

- Led research and development of 'Internet of Things' devices within the Oracle Database ecosystem.
- Produced the <u>Build Something! IOT= Internet + Oracle +</u>
 <u>Things</u> presentation, which received the "Overall Top Speaker" award at ODTUG Kscope 2015, the largest Oracle user group conference
- Developed secure, reliable customer management and information systems for Harvard Pilgrim Health Care with Oracle Database and APEX

The University of Chicago

JUN 2017

- BA in Mathematics, Minor in Visual Art
- Captain, Varsity Cross Country and Track & Field

Python ★★★★

- Led the architectural design and implementation of Python based machine learning applications within a serverless AWS ecosystem
- Handled the upgrade of complex machine learning systems from Python 2.7 to 3.6
- Extensive experience enhancing & refactoring complex legacy code bases

Amazon Web Services ★★★★

- Architected science applications to save thousands of dollars in monthly AWS costs
- Developed new machine learning and data processing applications with AWS Lambda, SQS, S3, DynamoDB, CloudFormation, and API Gateway
- Implemented complete build systems for machine learning projects using AWS CloudFormation, Serverless Application Model, CodeBuild, and CodePipeline

Pandas, NumPy, SciKit-Learn, Matplotlib

- Leveraged the Python data science stack within serverless and no-SQL frameworks
- Improved data processing performance by 1000x using Pandas and NumPy vectorization
- Owned complex visualizations required for monitoring optimization performance and system operation

SQL, PL/SQL ★★★☆☆

- Implemented Oracle PL/SQL to build secure health insurance information systems
- Utilized Postgres Database for primary storage of the device metadata and history required to run machine learning algorithms