WHO

Nick Nielsen

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WHAT WHERE WHEN

Tendril Networks, Inc Boulder, CO

Data Scientist PRESENT
Jun 2017

- Took on a dual Software Engineering and Data Science role in order to achieve scalability targets, improve operational excellence, and deliver crucial customer features
- 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
- Led a science & engineering team that reduced test suite runtime by 10 minutes and addressed developer pain points

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C2 Consulting Hingham, MA

Consultant AUG 2016
JUN 2015

- Led research and development of 'Internet of Things' devices within the Oracle Database ecosystem.
- Produced the ***Build Something! IOT= Internet + Oracle + Things*** 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

HOW

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

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Amazon Web Services
★★★★☆

- Developed 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

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Pandas, NumPy, SciKit-Learn, Matplotlib
★★★★★

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

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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