

Nicholas LiCalzi

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
📍 Brooklyn, New York


Professional Experience

Co-Creator, Software Engineer

Feb 2021 – Jun 2021

Dendro

Dendro (getdendro.com ) is an open-source, serverless monitoring framework for small, distributed applications.

- Led a remote team of four engineers across the USA through ideation, design, development, and release.
- Architected and built a fully serverless, auto-scaling, streaming ETL pipeline using AWS Kinesis Data Firehose, S3, and Lambda to centralize logs and metrics from collection agents on remote nodes in a distributed system to a central AWS Timestream database (their new, serverless time-series database).
- Built a CLI wizard used to easily configure and deploy Datadog's Vector as a collection agent on distributed servers, as well as for deploying, listing/reviewing, and tearing down the core pipeline.
- Engineered a dashboard and exploration platform for querying and graphing the collected monitoring data from AWS Timestream (time-series DB) in near real-time using React, VictoryChart, and NextJS.
- Authored technical case study and tech talk, which you can find at getdendro.com .

Software Engineer

Sep 2019 – Jan 2021

Self-Employed


Developed open source software, some highlighted projects include:

- **Jello**: full-stack project management app using React/Redux, an Express RESTful API, MongoDB, and more.
- **Request Bean**: an app for collecting and inspecting HTTP/webhook requests. Built with Rails, Action Cable, Active Job, Redis, and PostgreSQL.

Urban Data Scientist

Oct 2017 – Sep 2019

Kohn Pedersen Fox

- Data and geospatial analysis using the Python data science and visualization stack (sklearn, Pandas, etc.), ArcGIS/QGIS (mapping), Rhino/Grasshopper (3D design & visual programming).
- Published a paper  proposing an environmental performance based zoning methodology for cities.

Skills

Languages

Ruby, JavaScript, Python, Go, SQL, HTML/CSS

Frameworks

Node.js, React, Redux, Rails, Express, Sinatra

Misc. Technologies

Git, Github, Linux, HTTP, OOP, RESTful API, PostgreSQL, MongoDB, Algorithms, Big Data

AWS Cloud


Kinesis, Lambda, S3, Timestream, CloudWatch

Education

Software Engineering (Capstone)

2019 – 2021

Launch School 

Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem-solving skills. Read more at launchschool.com/employers 

M.S. Applied Urban Science & Informatics

2018 – 2020

New York University, Center for Urban Science and Progress

NYU CUSP is a research center dedicated to data/technology-driven solutions to urban problems, linking data science, statistics and analytics.

B.A. Metropolitan Studies

2011 – 2015

New York University

University Honors Student / Founders Day Award recipient