

Peter D'Elia, Software Engineer

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About Me

I am a curious-minded software engineer who enjoys collaboration and problem solving. I recently built Dendro, an open source system monitoring framework built using AWS services, and intended to be used by small, distributed applications. I have years of full stack experience, with React and Redux on the front end, ExpressJS and Node on the back end, and PostgreSQL and MongoDB on the database level.

Experience

2021

Remote

Co-Creator, Software Engineer, *Dendro*

- Co-Created Dendro (getdendro.com 📄), an open-source, serverless monitoring framework for small, distributed applications. Integrates AWS services including IAM, Kinesis Firehose, Lambda, Timestream, SNS, S3, and CloudWatch, saving users time.
- Led design and implementation of the Dendro CLI teardown functionality, ensuring that no services are left on the user's account.
- Contributed to the design and implementation of Dendro's deployment service, making it easy to set up a monitoring data pipeline.
- Wrote SQL queries for Timestream DB to enable visualizations of key metrics as well as front-end ReactJS code to display it.
- Implemented exponential backoff to AWS's optimistic response object, making pipeline deployment faster and more resilient.
- Authored writeup (getdendro.com/case-study 📄) describing the difficulty of monitoring distributed systems, how Dendro was designed and built to solve this problem, and engineering challenges.

2019 – 2021

Fullstack Developer, *Self-employed*

- Jello: A kanban board app built with MongoDB, ExpressJS, and React/Redux.
- RequestBean: A request bin app built with Ruby on Rails and Postgres. User authentication, webhooks, and websockets.
- Airlines App: A flight routes application built using ExpressJS and ReactJS.

Skills

Frameworks

ReactJS, Redux, ExpressJS

Languages

JavaScript, Golang, TypeScript, Python, SQL

Misc. Skills

Git, Github, Linux, RESTful APIs, HTTP, OOP, PostgreSQL, MongoDB

Cloud Technologies

AWS: Kinesis, IAM, Lambda, S3, Cloudwatch, Timestream, SNS, DigitalOcean Droplet, Heroku

Education

2016

Ph.D., *University of Virginia*

Doctorate in music history, dissertation on Beethoven's music in its context.

2007

B.A., *Harvard University*

Bachelor of music. Piano performance, history, theory, composition.