

# Peter D'Elia, Software Engineer

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## About Me

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

## Experience

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2021 – present  
Remote

### **Co-Creator, Software Engineer, *Dendro***

- Co-Created Dendro, an open-source, serverless monitoring framework for small, distributed applications.
- Designed, prototyped, and built Dendro core using NodeJS, TypeScript, and Amazon Web Services (IAM, Kinesis Firehose, Lambda, Timestream, SNS, S3, CloudWatch).
- Designed and coded core functionality for deploying, updating, and tearing down AWS services in the Dendro CLI.
- Wrote SQL queries for Timestream DB to enable visualizations of key metrics as well as front-end ReactJS code to display it.
- Co-wrote white paper describing the problem of observability of distributed systems, how Dendro helps solve this problem, how it was designed and implemented, and implementation challenges.

2019 – 2021

### **Fullstack Developer, *Self-employed***

- Jello: A kanban board application built using MongoDB, ExpressJS, and React/Redux.
- RequestBean: A request bin application built using Ruby on Rails and Postgres. It supports user authentication, webhooks and uses websockets for no-refresh page updates.
- Todos: A todo application built using Postgres, ExpressJS and vanilla JavaScript on the front end. It supports user authentication.

## Skills

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|--------------|-------------|--------------|
| • Postgres   | • MongoDB   | • ReactJS    |
| • Redux      | • ExpressJS | • Node       |
| • JavaScript | • Golang    | • Git        |
| • Linux      | • SQL       | • TypeScript |

## Education

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2016

### **Ph.D., *University of Virginia***

Degree in music, dissertation on Beethoven's music in its context.

2007

### **B.A., *Harvard University***

Degree in music.