Devon **Peticolas**

DATA ENGINEER

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About

I'm currently a Sr. Data Engineer and Tech Lead at Chartbeat who specializes in architecting high-throughput pipelines, realtime data modeling, and leading small teams to build data-driven products. I'm a strong proponent of boring but simple solutions, independent benchmarking, and sprint retrospectives.

I'm seeking a senior-level engineering position focused on hard problems with the opportunity to grow into engineering leadership.

Work Experience

Chartbeat   *New York, New York*

SR. SOFTWARE ENGINEER AND TEAM LEAD   *June 2015 - July 2017*

- Architected and built a realtime streaming backend using Apache Kafka, Clojure, Riak, and AWS DynamoDB for "New Heads Up Display", a product that translates 300K req/sec into 100mil click events per minute exposed via a site-overlay-dashboard to the user in < 15 sec.
- Adopted Scrum-like process to organize and lead a 9-person team to successful product launch after a year of set-backs. Applied same process to later teams to fix existing products and build new reporting infrastructure.
- Primary Maintainer of Clojure-Kafka internal libraries, Kafka consumer best practices, and highest load Kafka consumers.
- Created a real-time system which imputes missing pieces of sequential events with decay using priority-maps (hash-maps and priority-queues pointed to the same data).

SOFTWARE ENGINEER   *June 2013 - June 2015*

- Primary backend engineer in rebuilding Chartbeat Video Product which shows customers information about their video content.
- Architected and built historical and realtime ETL-pipelines targetting MongoDB and AWS Redshift.
- Architected and built supporting worker and API infrastructure for generating reports and dashboards.
- Built click-likelihood models showing the likelihood of someone clicking somewhere on a page using a beta distribution and gaussian blur.

Involvio   *New York, New York*

SOFTWARE ENGINEER - CONTRACTOR   *December 2012 - May 2013*

- Migrated an existing PHP application to Ruby on Rails.
- Restructured the exsisting application's use of MongoDB for 10x improved performance.

Branch, Branch.com   *New York, New York*

HACKNY FELLOW   *December 2012 - May 2013*

- Worked as a full-stack Ruby on Rails developer to help branch.com launch as a new product on a team of less than 10 people.
- Participated in the HackNY Fellowship program which involved collaborating with other fellows on projects and attending talks from industry leaders.

Education

Rutgers University - School of Arts and Sciences   *New Brunswick, NJ*

B.S. IN COMPUTER SCIENCE AND MATH   *Class of 2013*

- President of The Undergraduate Student Aliance of Computer Scientists.
- Cheif Organizer of the Spring 2012, Fall 2012, and Spring 2013 HackRU Hackathon.
- Recitation assistant for Math department Calculus classes.

Presentations

Clojure/West 2016 - One Million Clicks per Minute with Kafka and Clojure   *Seattle, Washington*

PRESENTER   *April 2016*

- https://youtu.be/VC_MTD68erY
- Opened for Keynote Speaker Matthias Felleisen
- Recieved three positive comments on YouTube!

Hobbies & Interests

At The Keyboard   Clojure, Priority Hash-maps, The 1989 Gameboy's Z80-like CPU and hardware

Away From Keyboard   SciFi, Baking, Multi-day Hiking Trips such as the Laugavegurinn Trail in Iceland and Mt. Fuji in Japan