Paul Kiernan

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EXPERIENCE

REDDIT INC.

STAFF SOFTWARE ENGINEER

August 2019 - Right Meow

· Global Director of Dank Memes

Junior Director of Dank Memes

July 2018 - August 2019

SENIOR SOFTWARE ENGINEER II

CHARTBEAT INC.

HEAD OF BACKEND ENGINEERING

October 2016 - July 2018

- Built 'MrRoboto', a replicated C++ key-value store capable of writing over 500k records/sec and computing arbitrary views, defined at runtime, on stored data. Persisted data in a LMDB copy-on-write b-tree that supports transactions, snapshots, multiple non-blocking readers + single writer, and scales reads linearly with CPU cores. Used Chain Replication to persist data across nodes
- Built 'Miata', a convenient real-time streaming analytics framework for prototyping products using Chartbeat's streaming data firehose using Kafka, ZeroMQ and Python
- Led a team of 8 backend engineers across 4 product teams. Conducted weekly 1-on-1s with each team member and advised each on personal, team, and project development
- Modernized observibility, reporting, and alerting infrastructure

BACKEND TEAM LEAD

October 2015 - October 2016

- Led research and development team responsible for developing experimental products. Presented research and new products to Chartbeat Board and communicated the progress of active experiments to the company
- Built 'Goby', a dashboard for communicating the most engaging articles active within the Chartbeat News Network
- Developed share of voice benchmarking tool to aid publishers in measuring their contribution to a news topic
- Created real-time targeting platform for ad distributors to identify and monetize articles with high engagement
- Implemented RPCA outlier detection for surfacing anomalous traffic patterns in topics published on the Chartbeat network
- Taught a recurring Python language class covering advanced features of the language such as writing custom C extensions and debugging workflows

BACKEND DEVELOPER

August 2014 - October 2015

- Open-sourced Parselmouth, an object-oriented interface for abstracting away the ugly parts of ad server APIs
- Developed a Line Item Recommendation product for suggesting new impression to hit a defined engagement goal on time
- Built system for indexing screenshots of advertisement creatives over time
- Primary backend engineer behind 'Loveboat', Chartbeat Advertising's V2 APIs

MOAT INC.

BACKEND DEVELOPER

May 2012 – August 2014

- Engineered a network of web crawlers for programmatically detecting, capturing, and indexing online advertisements across different geographical regions
- Designed ETL pipeline for aggregating warehoused index results
- Developed analytics reporting API and Pyramid web application for serving reports to clients
- Implemented server role and configuration deployment system in Amazon EC2

EDUCATION

CORNELL UNIVERSITY

BS IN ELECTRICAL AND COMPUTER ENGINEERING (ECE)

May 2012

- Honors: John McMullen Dean Scholar, Goldfarb Tradition Fellow
- Slope Media Vice President of Production and Technology
- University Nanosat 6 Power Subsystem Engineer

PROGRAMMING SKILLS

Expert: Python

Proficient: C++ • C • Java • Clojure • Shell

Redshift • SQL • Kafka

Familiar: JavaScript • CSS • PHP

INTERESTS

Cooking • Surfing • Particle Physics Fusion Engineering • Miyazaki Films Ceramics • Aerospace Engineering Music • Interactive Art Projects

LINKS

Github:// paulkiernan LinkedIn:// paulygon Twitter:// @gaelic