Cyrus Vafadari

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EXPERIENCE

Confluent, Inc 2018 - Present
Backend Software Engineer, Confluent Cloud *Palo Alto, CA*
· Designed & Implemented Usage Based Billing for Connect Cloud, including accuracy tracking
· Designed & Implemented SLIs, SLOs, metrics, and alerts for Connect and Schema Registry

Confluent, Inc 2018 - Present
Backend Software Engineer, Apache Kafka Connect *Palo Alto, CA*
· Apache contributor: KIP-475 Connect metric for distributed worker tasks by status
· Manage oncall assignments and run weekly sync for 15-person team: ID'd core features to reduce load
· Implement & own Syslog connector and GCS connector
· Mentor new hires in Connector Development

Shoobx, Inc 2014 - 2017
Fullstack Software Engineer *Boston, MA*
· Module owner for "Equity" module of Shoobx SaaS product, including Captables, IRS Report generations
· Designed and implemented ETL pipeline
· Designed & implementedworkflows used by clients to grant millions of dollars of stock

Sookbox, LLC 2011 - 2014
Engineering Cofounder *Cambridge, MA*
· Raised $1.2M to develop a home media streaming and playback solution
· Designed and wrote back-end in Python (rewritten from PHP)
· Designed platform for distrubted architectures, remote message calling, and data marshalling
· Recruited and managed team of 5 engineers, worked with CEO to engage firms in strategic partnerships

Compact Muon Solenoid, LHC, CERN 2010
Observation of Long-Range, Near-Side Angular Correlations in P-P Collisions *Geneva, Switzerland*
· Analyzed over a billion collisions and Monte Carlo simulations in a parallelized grid-based C++ framework
· Discovered evidence of quark-gluon plasma in high-multiplicity p-p collisions, never before observed
· Journal publication: doi:10.1007/JHEP09(2010)091s

AWARDS, PATENTS, AND PUBLICATIONS

· H@cking Medicine, March 2014, Winner, "Best Use of Data" (largest cash prize)
· Patent: Digital Content Connectivity ... Discriminatively: US2014/0330951A1
· Patent: Configuring, Networking, and Controlling ... Unique Network-Capable Devices: US2014/0229625
· Patents Pending: US2014/0195587 and US2014/0330951A1
· "Radiation Resistance of Biological Reagents for In Situ Life Detection" (Astrobiology: 10.1089/ast.2012.0869)

EDUCATION

MIT Class of 2012
Cambridge, MA
· Thesis: Monte Carlo Methods for Parallel Processing of Diffusion Equations
· Modelled neutron flux in reactors as systems of differential equations approximated by linear systems
· Used a message passing interface in C to parallelize a Monte Carlo method to calculate solution vectors