Paul Shahid

Education

Bachelor of Science in Computer Science, class of 2014 (Fall)
College of Charleston, SC

Skills & Technologies

- Development experience using Python, Javascript/Node.js, Java, HTML, CSS, BASH, Golang
- Experience using: Kubernetes, Docker, Git, Google Cloud & GCP cloud services, AWS, Apache Beam, Kafka, Prometheus, PostgreSQL, Jenkins, InfluxDB, Gitlab, Elastic stack, RabbitMQ
- Experience with software development on CentOS, Ubuntu, Debian, OSX, Fedora, and Rhel
- Frameworks: Twisted (python), Django, Flask, React, ElectronJS, AutobahnJS, Play!, Sci-kit Learn

Experience

Tower Research Capital, *Senior Software Developer*, Jan 2020-Apr 2020

Tower Research Capital, *Core Engineering Software Developer,* February 2015-2019:

- Created a data ingestion pipeline for aggregating and transforming telemetry and other data about the state of our HPC and kubernetes clusters, using BigQuery, Kafka, and Elasticsearch
- Developed a method for determining aggregate size of unused files on our file system which enabled us to save money on storage yearly
- Created Grafana dashboards backed by BigQuery data for real-time monitoring of HPC assets
- Designed and built web-based release notes for 40+ internal infrastructure repositories, used by our core engineering org of 250+ developers
- Wrote data mining graph traversal algorithms to extract and link data from internal JIRA and git repos, using a distributed worker system running on Kubernetes
- Major contributor to internal development workflow tooling
- Created a metering & chargeback system for internal cost tracking of cloud expenditures on AWS, GCP, and on-prem, enabling us to recoup costs of the cloud via internal clients

South Carolina Research Authority, *Software Development Intern*, April 2013-December 2014:

- Developed features and fixed bugs for a commercially-sold web application with a Java back-end
- Used ArcGIS Javascript API to develop tools and UI on the front-end of the application
- Wrote client-side transport API that managed the use of WAMPv1 over WebSockets and an HTTP long-polling fall-back
- Wrote long-polling back-end using the Akka actor system in Java

Side Projects

ML Systems, Co-founder, Startup, January 2014-December 2014:

- Used Python and Sci-kit learn to train Linear Support Vector Classifier and Logistic Regression algorithms on social media datasets
- Wrote a Python program that ingested social media streams and predicted their sentiments in real-time

Activities & Interests

- Interests in: data platform engineering, distributed systems & distributed work, observability
- Home lab PXE-booted raspberry pi cluster
- Kiteboarding, paintball, hiking, mountaineering, travel, rock climbing, gardening