James Meickle

Malden, MA • eronarn@gmail.com • (860) 573-4976 • linkedin.com/in/eronarn

PROFESSIONAL EXPERIENCE

CATCHLIGHT INSIGHTS LLC / FIDELITY LABS (FIDELITY INVESTMENTS)   **Boston, MA**
Principal Infrastructure Engineer   **June 2020 - Present**

Fidelity Labs is Fidelity Investments' in-house startup incubator targeting promising fintech opportunities. Catchlight uses machine learning and data enrichment to help financial advisors engage prospects and drive conversions.

- Launched two independent fintech startup products to paying customers in 2020 and 2021 respectively
- Productionized a machine learning model for realtime scoring, ranking, and filtering of leads in Elasticsearch while remaining compliant with security, data protection, and regulatory standards (FCRA, CCPA)
- Deployed a multiple-account AWS architecture based on ECS Fargate and RDS Aurora Serverless using Terraform, secured firm-wide approval for Terraform as an IAC tool, and coached other teams on adoption
- Enabled the engineering team to accelerate production deploys from weekly to daily by deploying containerized CI/CD pipelines using Jenkins, Kubernetes, Kaniko, and Terraform
- Architected and implemented ETL pipelines (Python, Apache Airflow), a cloud data warehouse (Snowflake), and a secure multi-user data science laboratory (Sagemaker Studio) within the first year of operations
- Conducted all phone screens and interviews to expand the infrastructure team and to recruit a sibling team's first infrastructure hire, and served as acting engineering manager after onboarding a junior infrastructure hire

QUANTOPIAN (ACQUIRED BY ROBINHOOD)   **Boston, MA**
Senior Site Reliability Engineer   **January 2019 - April 2020**
Site Reliability Engineer   **March 2017 - January 2019**

Quantopian is a quantitative investment startup placing trades synthesized from tens of thousands of crowdsourced Python algorithms, combining aspects of a consumer-facing fintech education startup and a quant hedge fund.

- Reduced SRE team's page burden by 90% by migrating legacy batch processes, including trading workflows, to Apache Airflow DAGs and Kubernetes pods deployed via self-service GitHub pull request
- Cut CI/CD build times in half by converting pipelines from a singleton Jenkins instance to parallelized container-based tests run on an autoscaled, self-hosted EC2 Buildkite deployment
- Improved reliability and decreased compute costs by 25% while migrating legacy EC2 services to Kubernetes deployments, including on-demand Kubernetes development environments with Helm and garden.io
- Designed and built a platform for concurrent serverless execution and analysis of hundreds of top-performing Python trading algorithms using Kubernetes, Argo Workflows, Amazon S3 and Amazon Athena

NEUROINFORMATICS RESEARCH GROUP (HARVARD UNIVERSITY)   **Cambridge, MA**
Site Reliability Engineer   **May 2015 - February 2017**

- Enabled scientists to process a 10x increase in data volume by writing a Python framework for reliable and concurrent statistical processing of terabytes of MRI brain scan data on SLURM HPC hardware
- Replaced an existing cron job system with a Buildbot-based task runner, including on demand and backfill jobs across thousands of brain scans, integrated with Elasticsearch/Kibana for log-based alerting
- Developed a continuous integration system with Buildbot and Docker to run floating point drift detection tests to maintain backwards compatibility with legacy (10+ years old) scientific pipeline software

EDUCATION

CENTRAL CONNECTICUT STATE UNIVERSITY   **New Britain, CT**
Bachelor of Arts, Major in Psychology and Political Science   **September 2005 - June 2010**

ADDITIONAL INFORMATION

- Skills: AWS, Python, bash, Argo Workflows, Airflow, Kubernetes, Docker, Terraform, Ansible, Datadog
- Languages: English (Native), Spanish (Intermediate), Mandarin (Novice)
- Community: Technology conference speaker, organizer, and sponsor; former developer evangelist
- Gigs: Published author ("Beyond Burnout", *Seeking SRE*), skills training and expert research for DevOps/SRE