

NAKUL PATHAK

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WORK

- **Scribd**, Software Engineer III *July 2020 - Present*
 - Reduced deployment time from **36 minutes** to **16 minutes** through Fargate parameter updates, AWS throttling removal, database migration and asset deployment optimizations
 - Interviewed 10+ candidates and mentored engineers via code-walkthroughs, reviews and debugging assistance
 - Setup mirror of staging environment with Fastly caching, Nginx, HAProxy, asset and container deployments
- Software Engineer II *July 2019 - July 2020*
 - Improved background job processing system by adding job management feature-flags, metrics collection, anomaly detection, and documentation
 - Implemented and led the upgrade of monolith from Ruby 2.3 to Ruby 2.5
 - Part of special team to migrate monolith from managed data center to AWS
 - Containerized monolith for usage in AWS Fargate
 - Wrote Terraform infrastructure for running web application and background jobs in AWS
 - Created jobs splitting middleware to gradually migrate jobs to AWS
 - Created deployment and asset delivery pipelines to deploy to AWS
- **SigOpt**, Software Engineering Co-op *September 2018 - December 2018*
 - Created API and web page to utilize Apache Zookeeper for feature flag management and resource throttling
 - Replaced kubectl subprocess calls with Python client for improved error-handling and multi-threading support
- **Twitter**, Software Engineering Co-op *January 2018 - April 2018*
 - Designed and implemented parts of microservice that modularized Twitter ad formats reducing time required to create new ad formats from **6-8 weeks** to **7 days**
 - Prepared microservice for production through CI jobs, monitoring dashboards, integration tests, and load tests
- **Apple**, Build and Integration Co-op *May 2017 - August 2017*
 - Automated creation and modification of over **500** Jenkins jobs after investigating job management systems
- **Shopify**, Software Developer Co-op *September 2016 - December 2016*
 - Set up authentication flows following OAuth2 and Open ID Connect specifications for Single Sign On project
- **Oracle Eloqua**, Developer Operations Co-op *January 2016 - April 2016*
 - Decreased Teamcity agents' set up time by **63%** using Chef, Bash scripts and Rake tasks
- **Shopify**, Software Developer Co-op *May 2015 - August 2015*
 - Added over **100** third party payment system integrations by automating addition of these systems to Shopify
 - Created and integrated open-source Payment Icons gem across Shopify's codebase

PROJECTS

- **Undergraduate Research** *September 2017 - December 2017*
 - Implemented openCypher queries for in-memory graph database under Dr. Semih Salihoglu
- **Personal Blog Gem** | 🌐 | 📄 *March 2016*
 - Ruby gem to add a responsive personal blog with markdown support and syntax highlighting to any website

EDUCATION

- **University of Waterloo**, Bachelor of Software Engineering *September 2014 - April 2019*
 - Founder and president of Meditation Explorers club - organized and lead weekly meditation sessions