

NAKUL PATHAK

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SKILLS

- **Languages:** Python, C++, Scala, Javascript, Java, Ruby, SQL, Bash
- **Frameworks:** Ruby on Rails, Flask, Django, React
- **Tools:** *nix, Vagrant, Jenkins, Docker, Kafka, Zookeeper, Kubernetes

WORK

- **SigOpt**, Software Engineering Co-op *September 2018 - Current*
 - Created API and web interface to use Zookeeper as a feature flag management and resource throttling system
 - Developing tool for managing training clusters and hyperparameter tuning using Docker, Kubernetes and AWS
- **Twitter**, Software Engineering Co-op *January 2018 - April 2018*
 - Designed and implemented microservice on a senior backend team that modularized existing Twitter ads 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
 - Taught classes about Bash and led #MindfulnessMonday meditation sessions across the company
- **Apple**, Build and Integration Co-op *May 2017 - August 2017*
 - Led investigation of multiple Jenkins job management systems to find ideal implementation for Apple builds
 - Automated creation and modification of over **500** Jenkins jobs based on investigation results
 - Presented decision making process and final implementation of project to over 20 engineers across 4 teams
- **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
 - Reduced image load times on shopify.com by **10%** using CDN tools
 - Migrated models from storing data in YAML files to SQLite database decreasing query execution time
- **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
 - Reduced quarterly maintenance time from **2 hours** to **5 minutes** by automating virtual machine management
 - Set up internal gem server by creating a Docker container deployed using Apache Mesos
- **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
 - Improved accuracy of financial GMV calculations by **5%** by filtering duplicate payment system responses
 - 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 that adds a responsive and customizable personal blog with markdown support and syntax highlighting to Rails applications
 - Downloaded over **2700** times since March 17, 2016

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