

# NAKUL PATHAK

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## SKILLS

- **Languages:** Ruby, Python, Javascript, C++, SQL, Bash.
- **Frameworks:** Ruby on Rails, Flask, Django.
- **Tools:** \*nix, Vagrant, Docker, Chef, Nginx, Sensu, Elasticsearch.

## WORK

- **Shopify**, Growth Engineering/Identity Co-op. *September 2016 - December 2016*  
*Tech Stack:* Ruby on Rails, Coffeescript, Git.
  - Helped set up initial foundations for Single Sign On project including authentication flows following OAuth2 and Open ID Connect specifications.
  - Reduced image load times on shopify.com by **10%** by adding CDN tools across the application.
  - Migrated models from storing data in YAML files to SQLite database thus allowing faster database lookups.
- **Oracle Eloqua**, Developer Operations Co-op. *January 2016 - April 2016*  
*Tech Stack:* Ruby, Bash, Vagrant, Chef, Docker, Sensu, Elasticsearch, Git.
  - Improved TeamCity agents' set up process by allowing parallel execution and reducing set up time per machine from **4 hours to 1.5 hours** by automating the pipeline through Chef, Bash scripts & Rake tasks.
  - Reduced quarterly maintenance time from a **2 hours to 5 minutes** by creating Bash scripts to shutdown and start up various services across over 20 virtual machines.
  - Set up an internal gem server by creating a Docker container deployed using Apache Mesos.
- **Shopify**, Software Developer Co-op, Payments Team. *May 2015 - August 2015*  
*Tech Stack:* Ruby on Rails, Coffeescript, Git.
  - Added over **100** third party payment system integrations by automating addition of these systems to Shopify. Led project from early prototype to beta phase through test-driven development.
  - Improved financial GMV calculations by **5%** by filtering duplicate responses sent by external payment gateways.
  - Created and integrated open-source *Payment Icons* gem across Shopify's codebase, providing a uniform way of adding payment icons into any Rails app.

## PROJECTS

- **Personal Blog Gem** | 🐙 | 🔗 *February 2016*
  - Ruby gem that adds a responsive and customizable personal blog with markdown support and code syntax highlighting to any Rails application.
  - Downloaded over **1500** times since March 17, 2016.
  - **Tools:** Ruby on Rails Engines, HTML, CSS, Javascript.
- **One Press Man** | UoT HACKS 2016, **2nd Place** | 🐙 *January 2016*
  - Application that uses the Pebble watch's controls as a discrete, quick panic button to message preselected contacts and 911 in emergency situations.
  - **Tools:** C, Pebble SDK, Java.
- **MyoRunner** | ENGHACK, **2nd Place** | 🐙 *November 2014*
  - Arm gesture controlled Temple Run type browser-based game.
  - **Tools:** Lua and Myo SDK.

## EDUCATION

- **Bachelor of Software Engineering, University of Waterloo** *September 2014 - August 2019*
  - Currently in 3rd year (3A term).
  - Extensively used C++/C in multiple courses to learn programming concepts.
  - Received President's Scholarship of Distinction for having admission average over 95%.