

NAKUL PATHAK

University of Waterloo · 3A Software Engineering

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SKILLS

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

WORK

- **Growth Engineering/Identity Co-op, Shopify** *September 2016 - December 2016*
 - Implemented login flow that followed OAuth2 specification to allow external applications to authenticate using Shopify's Single Sign On.
 - 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.
- **Developer Operations Co-op, Oracle Eloqua** *January 2016 - April 2016*
 - Reduced time required to set up TeamCity agents by **63%** by automating the set up process through Chef, Bash scripts & Rake tasks.
 - Reduced quarterly maintenance time from a few hours to **5 minutes** by creating Bash scripts interacting with Chef (Knife), Apache, **Sensu**, Grafana, etc. to shutdown and start up services across over 20 virtual machines.
 - Set up an internal gem server by creating a Docker container using Geminabox gem that was deployed using Apache Mesos.
- **Software Developer Co-op, Payments Team, Shopify** *May 2015 - August 2015*
 - 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 **7%** by fixing an issue where certain payment gateways sent duplicate responses, doubling the total amount of transactions.
 - Created and integrated Payment Icons ruby gem across Shopify's codebase, providing a uniform way of adding payment icons into any Rails app. Open source on *Github*.

PROJECTS

- **Personal Blog Gem** | 📄 | 🔗 *February 2016*
 - Ruby gem that adds a responsive and completely customizable personal blog with markdown support and code syntax highlighting to any Ruby on Rails application.
 - Downloaded over **1,350** 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.
- **Flash** | HACK THE NORTH 2015, Participant | 📄 *September 2015*
 - Implemented an iOS application that provides users with shopping deals which expire 5 minutes after you open them.
 - **Tools:** React Native, Braintree API, XCode.
- **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*
 - Starting 3rd year (3A term) January 2017.
 - Received President's Scholarship of Distinction for having admission average over 95%.