Nakul Pathak

University of Waterloo · 3A Software Engineering

📞 +1(226)-868-8127 | ✉ n4pathak@uwaterloo.ca | 🌐 nakulpathak.com | ⭕ nakulpathak3

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*
    - Helped set up initial foundations for Identity/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.
- **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** | UofT 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%.