

# NAKUL PATHAK

University of Waterloo · Software Engineering

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## TECHNICAL SKILLS

- **Languages:** Ruby, Python, Javascript, C++, C
- **Frameworks:** Ruby on Rails, Flask, Django, Node.js, React Native, jQuery, Bootstrap
- **Tools:** Git, Bash
- **Databases:** MySQL, SQLAlchemy (ORM)
- **Miscellaneous:** HTTP requests, RESTful API development, Unix based systems, Algorithms & design patterns

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## WORK EXPERIENCE

- **Developer Intern, Payments team, Shopify** *May 2015 - August 2015*
  - Opened floodgates for multiple 3rd party payment system integrations by automating addition of these systems to Shopify. Lead project from early prototype to beta phase through test-driven full stack web development work.
  - Improved financial GMV calculations by 10% by fixing long-standing issue where payment gateways sent duplicate responses, doubling total amount of transactions.
  - Deployed Shopify's codebase to production over 15 times and made over 30 pull requests, helping various teams including data, shipping and security with my work.
  - Independently created, open-sourced and integrated payment icons ruby gem across Shopify's codebase, providing a simple and uniform way of adding these icons anywhere.

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## RELEVANT PROJECTS

- **Flash** | HACK THE NORTH 2015, Participant *September 2015*
  - Learned react-native to build an iOS & Android app in 36 hours.
  - Provides users with deals that last 5 minutes after opening. 1 touch payments through Braintree API
  - Node.js + Express app for Shopify app store for merchants to post deals and receive payments through Shopify API
- **Payment Icons Gem** | [http://github.com/activemerchant/payment\\_icons](http://github.com/activemerchant/payment_icons) *August 2015*
  - Extracted Shopify's payment icons into an open-source gem. Changed Shopify Admin, Checkout and Partners to use the gem.
  - Ruby on Rails engine which mounts payment icon assets and frozen record model to access those assets in any rails app
  - Currently used by over 175 3rd-party developers
- **Inventory Notifier App** *February 2015*
  - Used Django to build web app which calls or texts Shopify merchants when their product inventory goes below 10 items
  - Utilized Twilio API for calls and Shopify API for inventory checks
- **Library Management API** *February 2015*
  - Created RESTful API for managing books using Ruby on Rails & CRUD methodology
  - Utilized best practices such as versioning, namespacing, etc.
- **Blogging Service** | <http://nakul-microblog.herokuapp.com> *December 2014*
  - Built a blogging service which includes OAuth authentication login, user profiles, following users, etc. using Flask.
- **To-Do List API** *December 2014*
  - Learned REST principles and Flask by building API for managing to-do list through HTTP requests
- **MyoRunner** | ENGHACK, 2nd Place | <http://jhudson.ca/myorunaway/> *November 2014*
  - Learned Lua and Myo SDK to build Temple Run type browser based game in about 12 hours
  - Used 3D geometry to control sideways motion through arm rotation
- **Feed Me!** | HACK THE NORTH 2014, Participant *September 2014*
  - Learned Django to create a web app which provides possible recipes to make with ingredients listed in a search by parsing an API from Yummly.

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## EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

- **Software Engineering Orientation Leader** *September 2015*

Leader of Light Red orientation group. Set up events, guided students across different events, answered questions about university life and made a lot of friends!
- **Engineering Ambassador, University of Waterloo** *September 2014- Current*

Represented University of Waterloo by creating online portfolio. Actively participated in events like shadow days.
- **HH Internships/Co-op Group Creator and Admin** *November 2014- Current*

Created group for students to match up with startups/big companies/other students for internships & to help each other with academics, resumes, advice, etc. Over 1100 members now.
- **Standardized Tests** *December 2013*

SAT - 2360 (99th percentile), SAT Math Level II - 780, TOEFL - 113