Nakul Pathak

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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

Work Experience

- **Developer Intern, Payments team, Shopify** *May 2015 - August 2015*
  - Used TDD to automate 3rd-party payment system integrations by adding new section to Shopify Partners area and changing how Shopify handles external payment gateways. Handled full stack dev for project through weekly discussions with Product Manager and Designer. Presented progress to multiple teams and followed roadmap to achieve all features within the required deadlines.
  - Created RoR engine to extract Shopify's payment icons into a gem. Then changed Shopify Admin, Checkout and Partners to use the gem. Handled everything from legal coverage to testing before open sourcing gem under the activemerchant organization. Currently live with over 175 3rd party users.
  - Fixed long-standing issue where payment gateways sent duplicate responses doubling total amount, by implementing a solution that identified certain parameters which make a response unique and constructing a hash from those. Improved financial GMV calculations by 10%
  - Managed time between tasks assigned by lead and project manager while repeatedly meeting deadlines, making over 30 pull requests and deploying Shopify's codebase to production over 15 times.
  - Constantly improved performance by acting on feedback from weekly 1:1s
  - Added interactive office map to LCD TVs for hackdays projects, helping employees find teams, individuals and meeting rooms. Also allowed quick booking of meetings rooms and checking of meeting room schedules, thus helping improve collaboration across teams and projects.

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* *August 2015*
  - Independently created and integrated open source gem across Shopify's codebase
  - 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.

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!
- **Learner's Club, Founder** *September 2015*
  Created club focused on learning new concepts and technologies. Lead first meeting with introduction to web development workshop. Currently organizing speakers for more events throughout the term.

- **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