

# NAKUL PATHAK

University of Waterloo · Software Engineering

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## TECHNICAL SKILLS

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

## WORK EXPERIENCE

- **Developer Intern, Payments Team, Shopify** *May 2015 - August 2015*
  - Added over 20 third party payment system integrations by automating addition of these systems to Shopify. Led 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.
  - Independently created, open-sourced, and integrated Payment Icons ruby gem across Shopify's codebase, providing a simple and uniform way of adding these icons into any Rails app.
  - Deployed Shopify's codebase to production over 15 times and made over 30 pull requests, helping various teams including data, shipping, and security.

## RELEVANT PROJECTS

- **Flash** | HACK THE NORTH 2015, Participant |  *September 2015*
  - Implemented an iOS application that provides users with deals which expire 5 minutes after opening.
  - Currently building a Node.js + Express application that allows Shopify merchants to post deals and receive payments.
- **Payment Icons Gem** |  *August 2015*
  - Extracted Shopify's payment icons into an open-source gem currently used by over 175 3rd-party developers.
  - Ruby on Rails engine, which mounts payment icon assets and frozen record model to access those assets, into any rails app.
- **Inventory Notifier App** |  *February 2015*
  - Used Django and Twilio API to build web application that calls or texts Shopify merchants when their product inventory goes below 10 items.
- **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** |  *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 |  *November 2014*
  - Developed arm gesture controlled Temple Run type browser-based game using Lua and Myo SDK.
- **Feed Me!** | HACK THE NORTH 2014, Participant |  *September 2014*
  - Created a Django web application which provides possible cooking recipes by parsing ingredients listed in a search across an API from Yummly.

## EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

- **Software Engineering Orientation Leader** *September 2015*
  - Led orientation group throughout week, set up events, guided students across different events, and answered questions about university life.
- **Engineering Ambassador, University of Waterloo** *September 2014- Current*
  - Represented University of Waterloo by creating online portfolio. Actively participated in events like move-ins, shadow days.
- **HH Internships/Co-op Group Creator and Admin** *November 2014- Current*
  - Created a group, with over 1100 members, for students to match up with companies for internships & to help each other with academics, resumes, advice, etc.
- **Standardized Tests** *December 2013*
  - SAT - 2360 (99th percentile), SAT Math Level II - 780, TOEFL - 113.