

# -- Hari Dahal --

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## OBJECTIVE

Seeking a co-op or a paid internship for Summer and/or Fall 2017.

## EDUCATION

Rochester Institute of Technology (R.I.T.), **Bachelor of Science in Software Engineering**  
Expected Graduation: Spring 2020, GPA: 3.5/4.0, Minor: Computing Security

## Programming Skills

Python

Java

C

Ruby

Swift

HTML

CSS

JavaScript

SQL

PHP

## Web Frameworks

Django: *python*

Ruby on Rails: *ruby*

Spring Boot: *java*

Laravel: *php*

## Development Tools

Git

Subversion

PuTTY

Vim

IntelliJ IDEA

PyCharm

RubyMine

Lucid Chart

SCRUM

## Languages

Fluent in

English,

Nepali, and

Hindi

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## RELATED WORK EXPERIENCE

### Software Engineer Intern

Summer, 2016

#### American Greetings, Cleveland, OH

- Designed, developed, and documented a tool that enabled users with no programming background understand and validate HTML snippets. The tool utilized Python, BeautifulSoup, Bootstrap, and data structures like Stack
- Traced and fixed web application bugs under the leadership of a tech lead
- Learned and applied the Software Development Life Cycle model utilizing agile and scrum methodologies

## LEADERSHIP/ACADEMIC EXPERIENCE

### Member of Society of Software Engineers

Fall, 2015 - Present

### Student Lab Instructor for CS 101 [Principles of Computing]

Fall, 2016 - Present

Assist the professor by grading submitted labs and homework assignments

Responsible for assisting students on class topics, and support them during lab sessions

### Tutor at Computer Science Mentoring Center

Fall, 2016 - Present

Assist students taking computer science courses by helping them better understand class topics and support them with homework and lab assignments

### Tutor for Higher Education Opportunity Program (HEOP)

Fall, 2016 - Present

Tutor students in a one-on-one setting to help develop critical thinking skills and assist with related coursework. Courses: *Computer Science I, Computer Science II, and Computational Problem Solving for Engineers*

## RELEVANT PROJECTS

### Intern Hack Day - First Place

American Greetings

- The extension, developed with Swift, allows iOS users quickly preview trending and most-sold greeting cards in the notification center without having to open the host app.

### Google Foo Bar - Google's Hidden Challenge

- Solved various challenges by developing optimized solutions using algorithms such as Breadth-First Search (BFS), Depth-First Search (DFS), Backtracking, Dijkstra, and Bit Manipulation.

### Restaurant Web Application

kathmandukitchenandbar.com

- Built a Django-based web site using Python for Kathmandu Kitchen and Bar and deployed in Heroku
- Created a user friendly admin site to allow the owner to manually change price or add food items
- Integrated Google Analytics, added necessary SEO keywords, and submitted the business to Google Maps

### Vulnerability History Project

- Open source website developed with Ruby on Rails that allows researchers to visualize the vulnerabilities of popular open source projects

## PERSONAL PROJECTS

### cQuiz : Ruby on rails Web App

- With the goal of helping the Nepali-speaking community, working to develop a rails-based web application
- This application aims to integrate Google Translator and audio files to enable users to learn and take quizzes on different topics to prepare for the U.S. Citizenship/Naturalization Test

### Music Playing Website: Django, API, and iOS

hplay.herokuapp.com

- Allows users to create customizable music playlists

- Built an API based on Django REST Framework to serve songs and playlists via URL manipulations

- Utilized MVC architecture to create an iOS version by making use of multiple view controllers, JSON data fetched from an API call, and AVFoundationFramework

- Goal is to eventually recommend songs using Machine Learning

### Mastermind Game: Spring Boot Web App

- A Gradle-based web game that makes use of Gradle, and allows users to play mastermind guessing game

### Nice Thing Jar: PHP Laravel App

- With a goal to learn PHP framework working with two other team members to develop this site that allows users to store their quick thoughts that will be unlocked at the end of the year

## ACADEMIC PROJECTS

- HealthNet** : Led a team of 5 as a Development Coordinator to build a web app that helps hospital employees to manage their daily tasks. **Contributions:** *interactive calendar, messaging system, and upload files.*

- Mastermind** : Developed a Java game that implements Model View Controller (MVC) pattern with JavaFX

- Backtrack-Lasers** : A Java game that solves puzzle using Backtracking algorithm, and has both Command Line Interface (CLI) and Graphical User Interface (GUI)