

# Sehmon Burnam

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## Work Experience

Engineering Practicum Intern - Google

2016

Worked with Google's Infrastructure Networking team designing and developing software solutions for Google's data centers. Through software-defined networking, we are able to build real-time, low-latency software models of Google's network. Developed a tool using Python to verify links within a large-scale, globally diverse network by deriving models of paths through the network. Was responsible for controlling the generation of Traceroutes, and controlling their responses to be in a useful format.

- \* Added 1000+ lines of code to Google's codebase
- \* Repaired existing bugs in an external library that was owned by a remote team based in Tel Aviv
- \* Wrote accompanying design documentation
- \* Wrote both Unit Tests and Integration Tests to verify code

## Technical Experience

Programming Languages	Technologies
Python	HTML&CSS
Java	Linux
C++	Node.js
Javascript	Git

## Awards & Activities

Founder of [HackUC](http://www.hackuc.com) - The first hackathon of Union County Vocational Technical Schools  
[www.hackuc.com](http://www.hackuc.com)

Core organizer of Northwestern's Hackathon: Wildhacks

Co-Director of hackNorthwestern - Teaching Northwestern students fundamentals of Software Development

Web Developer and contributor for DIAL UP Radio and Magazine  
[dialupstuff.com](http://dialupstuff.com)

## Education

Northwestern University  
B.S. in Computer Science  
*2015-2019*

## Projects

### Potholes

[Python](#) - [Flask](#) - [Bootstrap](#)

*HackBCA II - 3rd Place*

*Intel Code for Good Prize*

*City of New Brunswick Pilot Project*

Potholes is a project developed to help cities manage infrastructure maintenance. Was chosen by Addteq to become a summer pilot project for the city of New Brunswick.

### What Am I Eating?

[Android](#) - [Mashery API](#)

*HackRU Top 10 Prize*

*Best Use of Mashery API*

"What am I Eating?" uses a barcode scanner to retrieve the UPC from a food item and returns the nutrition facts using the FoodEssentials API provided by Mashery.

### CareSwears

[Python](#) - [Flask](#) - [Bootstrap](#) - [Digital Ocean](#)

[www.challengepost.com](http://www.challengepost.com) Staff Pick of the Week

CareSwears is a digital swear jar that uses the Chrome WebKit Speech API to check when you swear, and donates \$0.25 to charity each time.