

# Rangaraj Tirumala

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Cambridge, MA

## Work Experience:

### Software Developer – Zippity, Inc

Nov 2019 – Current

- Reduced time to setup infrastructure for new clients from over 120 developer hours to 1 hour
  - Designed infrastructure as code setup from scratch using AWS Cloud Development Kit
- Helped transition Zippity from B2C software to B2B software, focusing on administrative tools for third parties
  - Lead migration from jinja based admin tool to an admin portal using ReactJS and React Admin
- Wrote and designed the Zippity scheduling and routing algorithms
- Enhanced security of our PostgreSQL database with more tightly defined roles and permissions to enable better data privacy and security
- Created metrics for latency and performance of API as well as reduced API latency (P50) 3x (1.2s to 400ms)
- Defined style and structure for Zippity's AWS-based infrastructure as well as our Python backend.
- Other responsibilities include: managing on-call bugs, interacting with third party software partners, and interviewing candidates for full time and internship positions

### Software Engineering Intern – Eightfold AI

May 2018 – Aug 2018

- Re-designed flow to optimize university recruiting for customers by bulk-importing resumes, CSV's, and resume books to our recruitment platform
  - Reduced time to receive and review resumes by over 10x
- Built a resume book parser in Python which splits large (~800 page) resume books into individual resumes
  - Rolled out to 3 companies within the first 30 days of release, replacing all former University Recruiting technology
- Designed Gmail integration to automatically import resumes from users' emails using the Google API

### Research Assistant / Author – Rutgers University Center for Cognitive Science

Jan 2018 – Aug 2019

- Presented as second author at the Xprag Conference in Tübingen, Germany
- Created automated web scraper with Selenium and AWS EC2 to collect data on spoken English
  - Collected over 1 million sentences to parse, tag, and study frequencies
  - Created a multithreaded data pipeline to handle pruning and tagging of collected linguistic corpora
- Project available: <https://github.com/rangat/whAnalysis>

## Leadership and Awards:

### President – Rutgers Cognitive Science Club

Sep 2017 – May 2019

- Organized bi-yearly panels on careers in Cognitive Science with leading experts in industry and academia
  - Helped match students to psychology and linguistics research labs
- Started and taught bi-weekly Python learning group of 20 students with special guest speaker from Google Deep Brain
- Increased club attendance by over 500%
  - Developed new meeting style, increased inter-club collaborations to boost member retention and engagement
- Won "Spirit of Rutgers" Award from the Chancellor of Rutgers University

### Best Hardware – Marauders Map

hackNY Fall 2018

### Best solution to bridge on and offline experiences – GLTLove

F8 Hackathon 2018

### Facebook API Award – SXSetFinder

SXSW Hackathon 2018

## Skills:

### Computer Languages

**Advanced:** Python, JavaScript, SQL **Other:** Java, Scala

### Frameworks & Technologies

**Advanced:** Flask, AWS, ReactJS, PostgreSQL, Twilio, NLTK, Selenium **Other:** Tensorflow, Docker, Android

## Education:

### Rutgers University New Brunswick

Class of 2019

B.A. in Cognitive Science (specialization in Computer Science)

Minors in Entrepreneurship and Philosophy