

# Venkata Gaddam

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40 Carnation Road  
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## Education

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### University of Maryland

College Park, MD – Dec. 2016

Bachelor of Science (B.S.), Computer Science

Minor: Mathematics

GPA: 3.84

### Awards and Honors

Dean's List all semesters

Science, Discovery, and the Universe, College Park Scholars

OMSE Annual Academic Excellence Award

## Work Experience

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### UMD Computer Science Department

August 2015 – present

Teaching Assistant

- For class CMSC330: Organization of Programming Languages
- Class material includes exploration of programming language types, as well as finite automata, regular expressions, context-free grammar, parsing, concurrency, Lambda calculus, and garbage collection
- Assist professors in forming tests, provide help for students for both projects and material during office hours, and answer student questions online on the class forum on Piazza

### AT&T Technology Development Program

June 2015-August 2015

Summer Intern

- Worked with Digital Life Java team on migration of Digital Life Penguin API from JBoss EAP 5.1 to 6.3, using research in topics such as EJBs, EARs, WARs, Maven build and deploy, servlets, and JBoss
- Major changes include migrating Penguin Maven build configuration, modifying JBoss 6 startup script using shell scripting, incorporating SDK and EJB changes in API, making necessary JBoss 6 logging changes, and creating a global library module
- Worked with Enterprise Application architecture, system and deployment hierarchy, project dependencies, API structure
- Tools used: Maven, JBoss, Java NetBeans, JBoss Developer Studio, Git, Android Studio, and OSX

### mySwapp

July 2014 – January 2015

Android Developer

- Worked on an Android application that allows users to swap items with other people nearby by selecting and requesting an item of their choice and offering one of their own in return
- Used Facebook's Android SDK, Google Maps API, and Parse to implement Facebook login, location services, and store user data such as preferences and profile information
- Implemented features such as standard and Facebook login, listview for items for trade nearby, item search, preferences (such as type of item and radius of location), app notifications on trade offers, uploading items with picture, and calendar reminders for when and where to meet
- <http://myswapp.com/about>

## Notable Class Projects

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- Rube: Implemented virtual machine bytecode, object-oriented code generation using virtual method tables, and static type checking for a language which is based on the basics of Ruby called Rube
- Unit Conversion: Implemented a small compiler for unit conversions using JSONs, ocaml yacc, and ocamllex
- Finite Automata: Created objective version of deterministic and non-deterministic finite automata, and implemented conversion between them and regular expressions in Ruby

## Technical Skills and Proficiency

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Java - ★★★★★

OCaml - ★★★★★

Ruby - ★★★★★☆

Prolog - ★★★★★☆

C Programming - ★★★★★☆

Matlab - ★★★★★☆

Python - ★★★★★☆

Android Studio - ★★★★★☆

Linux/Emacs - ★★★★★☆

Shell Scripting - ★★★★★☆

Y86 Assembly - ★★★★★☆