

# Vishnu Thiagarajan

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## Education

University of Texas at Austin, Austin, Texas

Expected Spring 2018

*Bachelor of Science in Computer Science*

GPA: 3.93

Coursework: Computational Intelligence in Design (Course and Independent Research), Principles of Computer Systems (OS), Computer Architecture, Data Structures

Current Courses: Algorithms and Complexity, Software Engineering, Programming Languages

## Experience

vAuto, Cox Automotive, Austin, Texas

Summer 2016

*Software Engineering Intern*

- Automated large-scale data harvesting and report creation
  - Designed and implemented new features and improvements in the work queue manager
- C#, ASP.NET, Python, OpenCV, Oracle SQL, PL/SQL, Teamcity, Javascript, EXT.JS, SVN, Git, Agile

RetailMeNot, Austin, Texas

Summer 2017

*Software Engineering Intern*

## Personal/Research Projects

### Machine Learning

- Using CNNs and image processing to convert videos of chess games to text notation and create large data sets
- Optimized 3D printing material usage and elasticity using genetic algorithms

Python, Keras, TensorFlow, Java, OpenCV

### Robotics

- Leading the software team for a self-driving wheelchair that will stay within a lane while avoiding obstacles and moving towards a destination; involved in several other robotics teams

C, Python, C++, Robot Operating System, OpenCV

### iOS Applications

- Publishing a multi-level action/strategy game where users can earn and use game currency
- Created more such apps to schedule and RSVP to meetings, save location information, view live streams, etc.

Swift, Objective-C, SpriteKit, MapKit, In-App Purchases, Heroku, Firebase, Parse

### Web Apps

- Developed a Facebook Messenger bot that will content tag posts and images
- Web application that matches a user's views (parsed from social media) to a list of local election candidates

Node.JS, Python, Flask, Bootstrap, HTML, CSS, Javascript, Graph API, AWS, Heroku, Alexa Skills Kit

## Skills and Leadership

Proficient in **C, Python, Java**

Comfortable in **C# (.NET), Javascript, Ext JS, Node.JS, SQL, Swift, PHP, HTML, and CSS**

Exposure to Perl, Objective-C, C++, and x86 Assembly

Secretary, UT IEEE Robotics and Automation Society; President, Bliss Meditation Club; CS 439 Tutor