

# Pranav Rajiv

<https://pranavrajiv.github.io/pranavWeb/>  
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## OBJECTIVE

To obtain an entry-level position as a computer software developer.

## EDUCATION

### UNIVERSITY OF WISCONSIN MADISON

BS IN COMPUTER SCIENCE

August 2016 - May 2018 | Madison, WI

### UNIVERSITY OF ILLINOIS AT CHICAGO

BS IN COMPUTER SCIENCE

August 2014 - May 2016 | Chicago, IL  
Transferred

## LINKS

Github:// [pranavrajiv](#)

LinkedIn:// [pranavrajiv](#)

## COURSE PLAN

### UNDERGRADUATE

Introduction to Optimization

Database Management Systems

Compilers

Artificial Intelligence

Introduction to Operating Systems

Introduction to Algorithms

Programming Practicum

Programming Design2

Software Development

## SKILLS

### PROGRAMMING

• Java • Python • Swift • JavaScript

• C•C++• Node.js • CSS • PHP•Shell

Familiar:

VB.Net • C Sharp • GAMS • Assembly

### DATABASES

•MySQL•SQLITE3 •Firebase• MongoDB

### SOFTWARE TOOLS:

• Xcode • XAML • XAMARIN • WAMP

• WordPress • Windows Server Manager

• Git • Graphviz • Uppaal • Postman • IBM

BLUEMIX • Azure

## EXPERIENCE

### IONIC FRAMEWORK SOFTWARE DEVELOPER INTERN

July 2017- Sept 2017 | Madison, WI

- Created a Sphinx extension which autodocs nested classes in a SQLAlchemy model.
- Documented, presented and demoed new existing features and improvements.
- Gained exposure to agile and software life-development cycles.

### COLLEGE OF PSYCHIATRY, UW MADISON IT SUPPORT

Sept 2016- July 2017| Madison, WI

- Web Development, Active Directory and Database maintenance.
- Created a mesh network for improving network traffic efficiency.

## RESEARCH

### HUMAN COMPUTER INTERACTION LAB, UW MADISON

UNDERGRADUATE RESEARCH ASSISTANT

JULY 2017 – JAN 2018

- Created a simulator in Java for testing chat-bot designs flaws using state, path and transition coverage.
- Build Chat-bots in IBM Watson Conversation.
- Automate Finite Transition System generations from JSON files.

## PROJECTS

### KNOW YOUR FLAGS IOS APPLICATION

June 2018

- Made a deep learning app in Swift and Xcode that lets users take pictures of Country's flag and predict which Country that flags from. Trained the image dataset on MobileNets using Tensorflow and converted it into a Core ML model

### DESERT OBJECT RECOGNITION AND AVOIDANCE

Dec 2017

- Used TensorFlow for rock and obstacle detection from a xbox kinect feed which the UW Robotics navigation team used for the rover competition.
- Tools and Technology: PyCharm, Github, OpenCV, Tensorflow, PyQt and Python.
- Development methodology: Agile

### SMART HOME (IOT)

Sept 2017

- Controlled room lights using post requests to a node server running on a raspberry pi. Currently trying to implement voice recognition.

### FINITE TRANSITION SYSTEM GENERATOR

June 2017

- Created a parser that converts an IBM Watson conversation JSON file into a DOT file, which generates a transition system to predict the dialog flow in a human-computer interaction.
- Tools and Technology: Eclipse, Uppaal, IBM conversation API and Java
- Development methodology: TDD

### KEY TRACKER (COLLEGE OF ENGINEERING, UIC)

Dec 2015

- A web application that can perform CRUD operations on employee records and authorize building accesses based on employee identification number.
- Tools and Technology: Dreamweaver, HTML, CSS, Javascript, PHP and Mysql
- Development methodology: Agile