

# Dhruvin Patel



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dhruvinpatel.info

## Education

### **M.S. in Engineering Science**

University of Mississippi

Emphasis: Computer Science

GPA: 4.0

Expected Graduation: May 2019

### **B.S. in Computer Science**

University of Mississippi

Minor: Business, Math

GPA: 3.80

Completed: May 2017

## Skills

**Languages:** Java, C, C++, MySQL, Python, Nodejs, Angular

**WebDev :** HTML, CSS, JS, JQuery, php, JSON, Spring Boot

**App Dev :** Swift, Ionic

**IDEs :** Eclipse, Spyder, VScode, Xcode

**OS:** MacOS, Linux, Windows

**Other:** MS Office, Git

## Courses

Artificial Intelligence  
Java Programming  
Models of Computation  
Algorithm Analysis  
C/C++ Programming  
Multimedia Design and Development  
Database Systems  
Digital Image Processing  
Swift App. Development  
Operating Systems  
Software Design and Development  
Natural Language Processing  
Cloud Computing  
Networking  
High Performance Computing

## Work Experience and Internships

Since Aug'17

### **Graduate Assistant, University of Mississippi**

Oxford, MS

- Aid in web/app development and software design courses
- Assisting students with projects and assignments
- Grading quizzes, exams, and projects for correctness

Dec 13-May'17

### **IT Helpdesk Student Worker, University of Mississippi**

Oxford, MS

- Take calls from current and prospective students that help with Ole Miss's websites
- Troubleshoot any problems with application and operating systems
- Help faculty member with any technology issues they have over the phone and in person
- Resolving any software conflicts over the phone or in-person

Jun'16-Jul'16

### **Web Ops Intern, C Spire**

Jackson, MS

- Design web applications with Spring Boot
- Optimize SEO results and developing a sitemap generator
- Code java applications to clean up server files

## Research and Projects

Jan'19-May'19

### **Master's Project: Transfer Learning In CNNs**

- Studied the effects and benefits of Transfer Learning
- Compared training with different medical image dataset
- Found reusing generalize features are better than random initialization

Aug'18-Dec'18

### **Text Summarizer GUI**

- Developed a Python GUI to enter an article or URL and return a summary
- Used to find the relevant sentences in a website or article

Aug'18-Dec'18

### **Abstractive Text Summarizer**

- Creating an abstractive text summarizer using a sequence to sequence model
- Researching way to improve the network and overall performance

Aug'18-Dec'18

### **Document Clustering**

- Clustering 10,000 research proposal documents into clusters
- Using Word2Vec to vectorize documents
- Using K-Means algorithm to cluster

Jun-Jul'18

### **Ole Miss Alexa Skill**

- Creating an Alexa Skill for students to get quick responses
- Hosted in AWS
- Using a NoSql to retrieve responses

Jan'18-May'18

### **Connipion AI**

- Team up with class mates to make an AI to play Connipion
- Using an alpha beta pruning to find the best next move

Jan'18-May'18

### **Cloud Instance Comparison**

- Analyzed the different completing instances between AWS and Google Cloud with machine learning load

Jan'17-May'17

### **Book Sharing App**

- Designed a Mobile application where students can search for textbooks from other student that have previous taken the class
- Used MySQL to create a relational database for the courses and post of books a user can have
- Developed the application with Ionic