

PAWAN PATIL

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<https://pawanpatil94.github.io/Portfolio/>

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SUMMARY

Computer Science graduate student with aptitude in solving technical problems. Interested in software development and applying my skills in the real-world. Seeking **Summer Internship 2017** that utilises my abilities and to give my best to the organisation.

EDUCATION

Masters of Science in Computer Science

Expected May 2018

Arizona State University, Tempe, AZ

Bachelors of Science in Computer Science

May 2016

Sri Jayachamarajendra College of Engineering (SJCE), Mysore, India

TECHNICAL SKILLS

Programming Languages: C++, C, Java, Python, Javascript

Web Development: HTML, CSS, Bootstrap, jQuery

Relevant Courses:

- Statistical Machine Learning
- Computer System Security
- Applied Cryptography
- Object Oriented Programming
- Principles of Programming Languages
- Foundations of Algorithms

ACADEMIC PROJECTS

User preference based recommendation (of restaurants) [Python]

Fall 2016

- Pre-processed the reviews for each restaurant using POS tagging and Word2Vec
- Implemented sentiment analysis on the reviews to extract polarity of the reviews
- Implemented Nearest Neighbour and evaluated the recommendation engine with SVR (MSE: 0.316) and Linear Regression (MSE: 0.285)

Spell-checker with GUI [Java]

Spring 2017

- Built a desktop application which checks multiple input files against a dictionary
- Prompts the user to add/find/replace words to the input file and dictionary
- Coded using the **MVC architecture**

Feature selection on KDD cup dataset [MATLAB, Python]

Spring 2016

- A benchmark Dataset from DARPA containing 0.5 million records with 41 features
- Applied information gain and entropy calculation method to filter irrelevant features
- Applied K-means on full dataset (41 features) and reduced dataset (16 features)
- Improved and achieved accuracy of ~68% in full dataset and ~76% in reduced dataset

A simple compiler [C++]

Fall 2016

- Developed a simple compiler using first and follow logic
- Functionality: parsing assignment, relational, print and switch statements

To-do List and Bookmarker Application [Bootstrap, JavaScript]

Spring 2017

- Developed a To-do list and a Bookmarker Application
- Stores data on the browser locally

Congestion Control [C]

Fall 2015

- Programmed TCP Tahoe (slow start) algorithm for congestion control in TCP which uses additive increase and multiplicative decrease strategy
- Analysed the algorithm to avoid network congestion

Web Designing [HTML, CSS, JavaScript]

Spring 2015

- Built an interactive web designing tutorial website (similar to w3schools.com) on local machine for educational purpose
- Tutorials about HTML, CSS & JavaScript