

Vedant Puri

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EDUCATION

University of Massachusetts Amherst, B.S. Computer Science
Member of Commonwealth Honors College
GPA: 4.0 / 4.0

May 2019

Relevant Coursework: Algorithms, Operating Systems, Intro to Natural Language Processing, Artificial Intelligence, Web Development, Databases

EXPERIENCE

Software Development Intern, Talentrack, India

July - August 2017

- Responsible for parsing access logs of their website to get statistics on daily number of clicks, opens and un-subscriptions.
- Deployed a PHP script that downloads the log file from AWS S3 daily, processes it and deletes it.
- Inserted Data into a database and represented it on graphs using google charts.
- Created an HTML form to fill in descriptions of the mailers, which is then linked with the database.

Front End Web Developer Intern, Magnon\TBWA, India

May - July 2014

- Part of a 5-member team responsible for building a digital marketing platform. Understood various web hosting environments.
- Created a website for a club at high school using WordPress, familiarized myself with MySQL, integrated Facebook APIs.

LEADERSHIP EXPERIENCE

- **Grader** for **CMPSCI-187** (Data Structures) Graded student assignments and addressed student concerns
- **Undergraduate Course Assistant** for **CMPSCI-230** (Systems). Lead labs and assisted students with programming.

PROJECTS

Multilingual Emoji Prediction

- Predicts an emoji based on a given tweet (English and Spanish). Limited to top 20 emojis given by SemEval 2018.
- Uses Naïve Bayes as a baseline and further uses Decision Tree Classifier, LSTM and bidirectional LSTM models.

Data Wrangling

- Uses Higher Order Functions in Python (map, filter, reduce) to parse a JSON file containing twitter tweets.]
- Extracts meaningful data from the file such as number of hashtags, mentions, iPhone tweets, android tweets, upper quarter tweets by favorites or retweets etc.

Memory Allocator

- Simulates the malloc and free functions used to allocate and deallocate memory in C.
- Uses splitting and coalescing mechanisms on the free list to allocate and deallocate memory efficiently.

Regex Evaluator

- Evaluates regular expressions and tests if a given string is in the language of the regex or not.
- Uses the derivative method to match an input string with a regex and outputs a boolean result.

OPEN SOURCE CONTRIBUTION

Natural Language Unix

November 2017 - Present

- Uses NLP and shell scripts to carry out basic commands in UNIX using natural language.
- Supports commands like find, move, copy, organize (organizes files in a folder by file type), undo etc.
- Aims to make it easier for users to carry out complex commands by using just natural language (syntax free).

SKILLS

- **Programming Languages:** Java, Python, PHP, C, C++, HTML, CSS, MySQL
- **Developer Tools:** Git/GitHub, SVN, Django, Google Charts API
- **Developer Environments:** Eclipse, PyCharm, Linux, Virtual Box, JGrasp.

HONORS AND ACHIEVEMENTS

- Certificate for **outstanding academic achievement** given by **The Honor Society of Phi Kappa Phi**. (UMass Chapter)
- Course citation – CMPSCI – 187 (Programming with Data Structures) – among top **7** students out of about **200** students.
- Course citation – CMPSCI – 311 (Algorithms) – among top **5%** of few thousands of students over the years.
- Dean's List – Top **10%** of students. (All semesters)