# Vedant Puri

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## EDUCATION

**University of Massachusetts Amherst**, B.S. Computer Science                              *May 2019*
Member of Commonwealth Honors College
**GPA**: **4.0** / 4.0

**Relevant Coursework:** Machine Learning, Computer and Network Security, 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

➢ **Undergraduate Course Assistant** for **CMPSCI-377** (OS). Graded assignments and answered student doubts.
➢ **Undergraduate Course Assistant** for **CMPSCI-230** (Systems). Lead labs and assisted students with programming.
➢ **Grader** for **CMPSCI-187** (Data Structures) Graded student assignments and addressed student concerns.

## PROJECTS

**Pyosphere (*Open Source*)**
➢ A bash script that provides a flattened execution environment for easy and error free imports in Python.
➢ Provides several options to give flexibility to the user. E.g. Initialize, Prune, Reset etc.
➢ Compatible for macOS and Linux, allows several different installation ways including homebrew and curl.

**Natural Language Unix (*Open Source*)**
➢ Uses CKY parsing (NLP) and shell scripts to carry out basic UNIX commands 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).
➢ Allows flexibility by allowing users to add their own commands easily by adding a script and appending the grammar.

**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.

**Universale**
➢ Uses Django to create a web app for college students to buy/sell items, services etc.
➢ Supports searching for products, flagging/unflagging items, creating/editing a profile, uploading/deleting a product.

## SKILLS

➢ **Programming Languages:** Java, Python, PHP, C, C++, Bash scripting, 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)
➢ Member of Phi Kappa Phi and Phi Beta Kappa **Honor Societies.**