

# Vedant Puri

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## Objective

I am looking for Full Time Software Engineering roles beginning Summer 2020. I have previously worked at Ernst&Young at a startup like Talenttrack. I have conducted research in Shallow Semantic Parsing, Argument Persuasion and Text Style Transfer (NLP) under Prof. Claire Cardie and Andrew McCallum. I contribute to Open Source Software such as ParlAI (Facebook Research) and linux-timemachine and have released some of my own from scratch as well: Pyosphere, Script Stash etc.

## Education

### Cornell University

Sep 2019 - May 2020

M.ENG IN COMPUTER SCIENCE

- **GPA: 4.086/4.0**
- **M.Eng Project:** Working with Prof. Claire Cardie to conduct further NLP research in argument persuasion and text-style transfer.

### University of Massachusetts Amherst

Sep 2015 - May 2019

B.S. IN COMPUTER SCIENCE | SUMMA CUM LAUDE

- **GPA: 4.0/4.0**
- **Relevant Courses:** Natural Language Processing, Machine Learning, Operating Systems, Secure Distributed Systems, Databases

## Skills

### Programming

Python, Java, C, C++, PHP, MySQL, PostgreSQL, HTML, Solidity, CSS, JS, Bash

### Frameworks/Tools

Git/GitHub, Scikit-Learn, PyTorch, NLTK, Circle CI, Travis CI, Django, AWS, Google Charts API

### Developer Environments

Eclipse, PyCharm, Linux, Virtual Box, JGrasp

## Experience

### Research Assistant

MA, USA

IESL UMASS AMHERST

Jan - May 2019

- Developed a software in Python (using PyTorch) from scratch to perform shallow semantic parsing (NLP) for scientific procedural texts.
- Established a Logistic Regression model to be used by Prof. McCallum's lab as a benchmark for the same task but in a low-resource setting.

### Software Development Intern

Mumbai, India

ERNST & YOUNG

Aug 2018

- Worked on an EY custom tool helping their clients to automate identification of specific GST Tax information on airline ticket invoices.
- Used third party RPA software systems to automate routine tasks in companies primarily for cost cutting.

### Software Development Intern

Delhi, India

TALENTTRACK (STARTUP)

Jul 2017

- Developed a pioneering analytical tool, using PHP, from scratch, providing insight to decision makers for business critical decisions.
- Created an easy to use web interface with several filters and a visual representation of the queried data using Google charts.

## Projects

### ParlAI (Facebook Research) — Python

- Implemented Circle CI dependency caching, improving dependency loading time by ~ 92%.
- Abstracted ParlAI's chat bot to extend to other services beyond messenger. Implemented a chat service using base API on the local terminal.
- Developed a script to render images (to be used in research papers) of human-bot conversations in a messenger like style.

### Pyosphere — Bash

- Open source project that simplifies python projects by enabling standard path-agnostic imports for all nested project resources.
- Designed a simple build system with easy configuration options, cleanup mechanisms, and incremental builds.
- Ensured easy accessibility for software developers by deploying pyosphere via a homebrew tap.

### Universale — Django, HTML, CSS

- Provides an exclusive web marketplace for college students to create their profiles and buy/sell items.
- Bridged the DB and front-end by parameterizing the code and removed redundancies, reducing code size significantly.
- Primarily developed core features like form data handling and user login management, while solving several bugs faced by my teammates.

### Script Stash — Bash

- Open Source project that supplies developers with a collection of simple scripts that automate tedious and repetitive tasks.
- Developed a script to update the brew formula to your latest package release with an option to auto-commit to brew tap.
- Implemented a script to change necessary settings and files to update a Django project name, making the process much easier.

## Certifications

- Natural Language Processing (**Microsoft**)
- Cryptography (**University of Maryland**)
- Usable Security (**University of Maryland**)
- AWS: Associate Developer, AWS: Solutions Architect (**Udemy**)
- HTML, CSS, Javascript (**Honk Kong University of Science and Technology**)