Justin L. Chavez

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EDUCATION

University of Pennsylvania,   **Philadelphia, PA**
Post-Baccalaureate Research Student, GPA: 4.0/4.0 (Graduate Level Coursework)   June 2017 - Dec 2017

University of Maryland, Baltimore County (UMBC)   **Baltimore, MD**
BS, Computer Science, Minor in Biological Sciences, GPA: 3.6/4.0   Graduated May 2017
Relevant Coursework: Computer Vision, Machine Learning

SKILLS

Programming: Python, MATLAB, C++, Java   **Web Development:** Flask, Bootstrap, PostgreSQL
Other: Amazon Web Services (EC2, RDS, EB), Linode Virtual Private Server (Ubuntu 16.04), D3.js

RESEARCH / WORK EXPERIENCE

University of Pennsylvania – *Modeling decision making in uncertain environments*   **Philadelphia, PA**
Computational Research Assistant in Gold Lab   June 2017 – Dec 2017
- Maintained and contributed to 10+ year old MATLAB software for behavioral experiments with GitHub
- Collaborated on a Python application of model with a PostgreSQL backend and parallel computation
- Utilized Bayesian Adaptive Methods to approximate human threshold for movement detection

Princeton Neuroscience Institute – *Categorizing video of fruit fly behavior*   **Princeton, NJ**
Student Researcher   Aug 2016 – Jan 2017
- Applied probabilistic graphical models using TensorFlow (Python) to track data of fly behavior
- Processed PKL files from a Hidden Markov Model using MATLAB into interpretable graphs

HackerPack LLC – *Improving the beginner hackathon experience (http://hackerpack.io)* **Princeton, NJ**
Co-Founder/Software Engineer   Mar - Oct 2016
- Raised $22,000 in seed funding from the Princeton University Keller Center
- Collaborated with co-founders to create Hackmates, a real-time web application built with Django and a serviced backend through Amazon Web Services' EC2 and RDS

Clarifai – *Developer Evangelist training program*   **Remote**
Technical Writer and Presenter   Aug – Dec 2016
- Taught an intro to Computer Vision Workshop at Hack Princeton Fall 2016 (http://bit.ly/hackptown)
- Developed an Amazon Alexa Skill tutorial (http://bit.ly/AlexaPythonTutorial)

PROJECTS

Alexa for Small Business – *Exploring new use cases of Capital One's financial technology with Amazon Alexa*
First Place Award at Capital One Philadelphia DevExchange Hackathon   Oct 2017- Nov 2017
- Encapsulated Python backend into an Amazon Alexa Skill to expose customers to Capital One coupons
- Taught an Amazon Alexa tutorial based on our project at Hack Princeton Fall 2017 (http://bit.ly/cp1hack)

MajorWay – *Data Visualization of college curriculum*
Won Best Education Hack award at Hoya Hacks   Spring 2016
- Developed a Natural Language Processor in Python and trained with the DBpedia database
- Visually outlined the underlying disciplines of each college major with D3.js pie chart

AWARDS

- (2017) Datmo Applied AI/Machine Learning Fellowship – *Probabilistic Modeling with Uber's Pyro*
- (2015-16) Grace Hopper Celebrating of Women in Computing Travel Grants
- (2015) MIT Quantitative Methods Workshop – *Nominated by UMBC faculty to attend 1- week workshop taught by MIT professors on applying Python and MATLAB to large biological datasets*
- (2015) MIT Media Lab Scholar to discuss emerging blockchain technology (e.g. Bitcoin) at Consensus
- (2013) Meyerhoff Scholarship – *Full Scholarship for UMBC*