Jenny Xu

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EDUCATION

B.S in Computer Science, Stony Brook University, *GPA 3.5/4.0*   Expected May 2021

Relevant Coursework: Intro to Machine Learning, Analysis of Algorithms, Computer Architecture, Database Design & Management, Theory of Computation, Computer Systems (Coding in C, C++), Linear Algebra, Probability & Statistics

EXPERIENCE

Research Assistant, *Data Science & Analytics Lab - Human Language Analysis Beings*   Aug 2019 – Present
- Investigating correlation of daily speech and mental health to create an NLP app that predicts depression from speech

Software Engineer Intern, *J.P. Morgan & Chase. Co*   Jun 2019 – Aug 2019
- Developed an NLP app to detect sexual/racial bias in formal speech and presented prototype to Managing Directors
- Collected 12 labelled language datasets using twitter API; analyzed and cleaned each dataset using Pandas, matplotlib
- Trained state-of-art language models (ULMFit, BERT) for each dataset on Jupyter Notebook and analyzed the performance of each model using ROC-AUC scores, identity matrix
- Created Flask chat app to integrate best model and visualized model output using D3.js and Bootstrap
- Took initiative to help other teams: Wrote Python script to automate git push, checkout processes; modularized script for SQL database queries to create unit tests for each function

Research Assistant, *Knowledge Systems Lab*   Aug 2018 – Dec 2018
- Helped develop an ongoing Machine Learning program that detects fake medical news by verifying articles intent with summarizations of its referenced medical research papers
- Created Python script to collect medical news over 2 months and extract text from HTML pages.
- Assisted in creating annotation rules for sentence intent, events extraction

Desk Monitor, *Stony Brook Residential Safety Program*   Jan 2019 – May 2019
- Work 12 hrs/wk to ensure campus safety by monitor personnel entering buildings of over 300 residents

Computing & Digital Sales Consultant, *BestBuy*   Apr 2017 – Jan 2019
- Engage customers to build solutions in a fast-paced environment, sold $900/hour on average

SELECTED PROJECTS

HackersMatcher (Startup) https://hackersmatcher.herokuapp.com   Jun 2018 - Present
- Developed an ongoing web service that match users into teams to enhance the hackathon experience
- Presented at StartSummit 2019: biggest entrepreneurship conference in Europe; beta tested at 5 hackathons with over 200 real users; attended hackathons to interviewed users
- Web service built from scratch using Node.js & Vue.js, utilizing MongoDB & Google Cloud for storage, Python for heuristic matching algorithm, D3.js for cluster visualization, Websockets for chat service, Boostrap for styling
- Currently rebuilding website in Flask & React to integrate Machine Learning models for matching algorithmn

Language Teacher (Hackathon) UPenn PennApps   Fall 2018
- *Action on Google Assistant Award*; Android app that periodically quizzes user vocabularies

VRBind (Hackathon) Yale University YHacks   Spring 2018
- *Top 8 Hacks, best emotion detection hack*; Help disabilities by displaying speech titles in VR Oculus

LEADERSHIP

Data Structures Teaching Assistant, Stony Brook University   Aug 2019 – Present
- Teaching recitation class of 35 students weekly; answer questions from over 100 students during weekly office hours

Webmaster & Outreach, Stony Brook Hackathon Organizing Committee   May 2019 - Present
- Built website https://sbuhacks.org and collaborate with other university hackathons

Software Team Lead, Stony Brook Robotics   Aug 2017 – Dec 2017, July 2019 - Present
- Devising Computer Vision models for obstacle detection, movement planning for autonomous racing car competition

LANGUAGES		LIBRARIES	HONORS	
Javascript	2 years	Proficient: Flask, Node.js, Vue.js, MongoDB, D3.js	States finalists	FIRST Robotics 2017
Python	2 years		Category 1st place	NY Science & Engineering Fair 2016
Java	1.5 years	Experienced: React, Pandas, Git, Jupyter, Bootstrap, Android, Swift, C#, Web sockets	Semi-finalists	National Siemens Research Comp 2016
SQL, R	3 months		Finalists	Columbia Research Journal 2016
C	1 month		US Rep	International Physicists' tournament 2016