Christopher J. Vassallo

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Education

University of Connecticut, Storrs, CT — May 2022
Bachelor of Science in Engineering, Computer Science and Engineering — GPA: 3.66/4.00
Concentration: *Computational Data Analytics*, **Minor:** *Mathematics*
Honors: UConn Honors Program, Upsilon Pi Epsilon CSE Honors Society, Microsoft Student Learn Ambassadors (Beta)

Technical Skills

Proficient: Python, SQL, JavaScript, MATLAB, HTML/CSS **Developing:** Java, C/C++
Technologies/Tools: Linux/UNIX, Git, Node.js, Heroku, NoSQL, Natural Language Toolkit, Scikit-learn

Work Experience

Infosys, Hartford, CT — May 2021 – August 2021
InStep Intern

- Designed and implemented a chatbot to collect and process client data using **NIA Chatbot Studio**, **Python,** and **Node.js** to reduce client visit paperwork completion time at the Phoenix Infosys hub by 50%.
- Automated data entry into hub database by deploying a REST API built with **TypeScript** to asynchronously retrieve and process chatbot information.
- Collaborated on internal MLOps framework by creating proof of concept MLOps pipelines using **MLFlow** and **Kubeflow**.

Comcast Center of Excellence for Security Innovation (CSI), Storrs, CT — May 2019 - June 2020
Research Assistant — *https://github.com/OSC-Project*

- Built a JavaScript static analysis tool in **Python** and **JavaScript** to find vulnerabilities in open-source components. Used the tool to find and report 3 new vulnerabilities in popular npm packages to the National Vulnerability Database.
- Compiled and maintained a MongoDB vulnerability database with over 850 entries for unit testing static analysis tool via data collection of online databases using **Selenium Webdriver**.
- Correctly reidentified mislabeled test-case types with 80% accuracy by calculating discrepancy in word frequencies using natural language processing via **Natural Language Toolkit** in **Python.**

Project Experience

UConn Rec Center Capacity Forecast, Storrs, CT — March 2021
Personal Project — *https://github.com/All88keys/src-capacity*

- Managed **MongoDB** database with over 30,000 entries of capacity data from UConn's rec center by programming a collection tool with **Selenium Webdriver**. Analyzed trends using **Matplotlib.**
- Forecasted future daily capacity using multiple regressions with **Pandas** and **Scikit-Learn.**

***Please 4get the Lyrics*, HackUMass VII**, Amherst, MA — October 2019
Full Stack Developer — *https://github.com/TheHuskiteers/please4getthelyrics*

- Won 2nd Place against 73 teams by building a karaoke-style web-app game in 36 hours using a modular and reusable client-server interaction framework using **Socket.io API**, **Heroku** platform, **Google Web Speech API,** and **Spotify API.**

***The Next Step,* 2018 College Tech Challenge**, Sacred Heart University, Fairfield, CT — November 2018
Front End Developer — *https://github.com/theFatDads/The-Next-Step*

- Won 1st Place against 12 finalists by creating a fully responsive, ADA compliant web app for Connecticut opioid users and families with automated information retrieval from 237 opioid clinics using **JavaScript** and **Google Maps API**.

***Face2Forte*, HackUMass VI**, Amherst, MA — October 2018
Group Project — *https://github.com/TheHuskiteers/midi-generator*

- Created a music therapy device designed to read facial expressions and procedurally generate music to match perceived emotion using **Python** and **OpenCV,** and Markov chains on a **Raspberry Pi.**

Leadership and Volunteering

Association for Computing Machinery, University of Connecticut, Storrs, CT — April 2020 – Present
President

- Promote programming, hacking, and professionalism by hosting weekly events including speakers, workshops, and panels increasing club attendance by 400%. Created 3 new officer positions for recruiting and outreach.