

# Christopher Drew Jepsen

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## WORK EXPERIENCE

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**PTC** June. 2023 – August. 2023

*Production Support Specialist Intern*  
*Boston, MA*

- Successfully modernized and updated more than 300 web pages, enhancing user experience, and ensuring alignment with current industry standards.
- Developed web scrapers and implemented web component test cases, significantly reducing the identification and resolution time for errors on live pages.
- Acquired valuable in-person corporate management and team cooperation skills through effective collaboration with cross-functional teams.

**Chatham Fish Pier Market** June. 2017 – August. 2022

*Senior Computer Systems Consultant*  
*Chatham, MA*

- Managed order fulfillment and cashier duties, ensuring accurate and efficient transaction processing.
- Provided expert IT troubleshooting and support for Point of Sale (POS) and computer systems, contributing to seamless operations and customer service.

## PROJECTS

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**TikTok Analytics Platform** June. 2022 – August. 2022

- Work with ML engineer to create infrastructure for analyzing TikTok account interaction data, creating indices of biggest supporters and detractors by applying sentiment analysis and tracking interactions across posts.
- Developed a simple frontend in Python using Flink, demonstrating the proof-of-concept.

**Netflix Popularity Prediction Model** January. 2023 – May. 2023

- Created Various Prediction Models using Python's scikit-learn to predict which factors of a Netflix show or movie lead to its popularity.
- Conducted vast amounts of data cleaning and feature-importance analysis, then constructed random forest models and linear models.

**Raspberry Pi Guitar Pedal** September. 2021 – December. 2021

- Co-developed a real-time guitar effects pedal with over 20 custom-made sound effect modules.
- Utilized a Raspberry Pi 4 running custom Python scripts and the Pyo Library for sound input and output.

**Language Learning Focused Song Recommender** September. 2022 – December. 2022

- Created a web-based application utilizing the Spotify API to generate custom playlists based on user language preferences.
- Implemented a Flask-run server, HTML and JavaScript frontend, and a Python backend for API interaction.
- Won second place at UVM's 2022 Computer Science Fair in the Advanced Programs Category.

## SKILLS & INTERESTS

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- **Languages:** Python, C++ , C, Rust, Java, HTML, PHP, CSS, SQL, R, SAS, OCaml
- **OS:** Windows, Mac OS, Linux
- **Frameworks and Libraries:** Flask, Kafka, TensorFlow, PyTorch, Jupyter Notebooks, scikit-learn
- **Applications:** Excel, Teams, JMP, Sitecore, Docker, ns3, Jira, Wireshark

## NOTABLE COURSES

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**Data Science I**

**Advanced Statistical Methods**

**Algorithm Design & Analysis**

**Data Structures and Algorithms**

**Statistics for Quality & Productivity**

## EDUCATION

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**University of Vermont - Undergraduate** August. 2020 – May. 2024

*Major: Computer Science BS, Minors: Statistics, Pure Mathematics*

*Burlington, Vermont*

**University of Vermont - Graduate**

January. 2024 – Present

*Accelerated Master's Program: Computer Science*

*Burlington, Vermont*