

Jay Yunas

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EDUCATION

Connecticut College

New London, CT | May 2022

B.A. COMPUTER SCIENCE, MINOR IN ECONOMICS, FINANCE

Honors: Forbes Under 30 Scholar, Presidential Scholar, Dean's High Honors **Teacher Assistant (TA):** Python, Data Structures **Coursework:** Data Structures; Algorithms; Computer Organization; Networks; Discrete Math; Software Development; Computer Vision; Artificial Intelligence; Machine Learning; Data Mining;

WORK EXPERIENCE

CONNECTICUT COLLEGE | AI RESEARCH ASSISTANT

New London, CT | May 2021 – Aug 2021

- Developed three smart **XPilot** AI agents using **Python**, **Racket**, and **C++** to implement a **Genetic Queue Algorithm**, using stochastic processes to train the agent through a standard **Neural Net** leading to 95% avoidance of projectiles and collisions.
- Strengthened all 3 chromosomes using **back-propagation** on all 1000 inputs over 100 epochs with a learning rate of 0.1, and achieved a neural net accuracy of 100%.
- Implemented parallel data pipelines for queue genetic algorithms to create a fully operational advisory-board-driven agent with reduced training time of 75%.

THE BEAU BIDEN FOUNDATION | SOFTWARE ENGINEER INTERN

Wilmington, DE | Jan 2020 - May 2020

- Architected multi-page full-stack web app decreasing search and creation time of new blog posts by 50% using **Vue**, **Flask**, **Python**.
- Assembled team of 5 software engineers to improve efficiency by 60% by implementing **Agile** methodologies.

TECH MAHINDRA | SOFTWARE ENGINEER INTERN

New Delhi, INDIA | May 2019 – July 2019

- Led 10-member team in analyzing 50+ companies using **SQL Server** and **PowerBI** to implement 10 to provide AI and ML solutions to enterprise clients generating \$15,000 in revenue.
- Created script to reorganize fifteen years of specific business data eliminating over 200 hours of manual file transfer in **SQL Server** by using **Python** and regular expressions.
- Created **UML** diagrams and documented where features were implemented, to make the codebase more maintainable.

PROJECTS

MULTIMEDIA HERITAGE TOURS WEB APP

LINUX, APACHE, MYSQL, PHP, JQUERY

Developed a platform to create audio-visual self-guided tours in Connecticut tours using **LAMP** stack and **jQuery**, increased users by 300%.

WEATHER REPORT

NODE.JS, EXPRESS, AXIOS, ESLINT HEROKU

Implemented a full-stack weather application where users can get weather data using **API requests** to MapQuest and OpenWeather.

JP MORGAN & CHASE

PYTHON, GIT, REACT, TYPESCRIPT, HTML/CSS

Interfaced with stock price data feed using JPMC software development frameworks and tools to display data visually for traders using **Python**, **Git**, **TypeScript**, **React**.

SOCIAL WELFARE ANALYSIS IN APPROVAL VOTING

PYTHON, OBJECT-ORIENTED DESIGN

Engineered a program to simulate approval voting data using **Python** in order to determine whether hidden or open polls lead to greater social welfare. Decreased research costs by \$1,500 by simulating Doodle Polls.

SKILLS

Languages: Python, Java, C++, C#, PHP, Bash, C, Racket, SQL

Web Development: Vue, React, Bootstrap, Django, jQuery, Express, Axios JavaScript(ES6), TypeScript, HTML/CSS

Technology: Git, AWS, GCP, Unity, Apache, \LaTeX , MongoDB, JupyterLab