

Timothy Burnes

B.S. COMPUTER SCIENCE

Springfield, MA | 413.768.0140 | tburnes@umass.edu | [LinkedIn](#) | [GitHub](#)

Objective

To find fulfilling and meaningful work in a company that emphasizes learning and growth initiatives.

Experience

Flare Therapeutics | Data Science Intern 2024 - 2024

- Worked with service APIs and AWS S3 API to build automated data pipelines
- Develop data visualization and interpretation tools for genomics using RShiny Dashboards
- Create genomic data aggregation tools using PubMed API and web scraping
- Process patient data and develop pipeline for use in novel graphing POC

CS 528 | Mobile and Ubiquitous Computing 2024 - 2024

- Programmed ESP32S3 to collect IMU data from MPU-6050 using I2C protocol
- Plot and classify IMU gesture data using FFTs, spectrograms and SVM and KNN models
- Implement real-time data analysis and recognition on IMU gesture data
- Utilizing off-the-shelf eye-tracking software, developed real-time data collection scripts and machine learning classification models to remotely control UAV drone with eye-movements

C&S Wholesale Grocers, Inc | Trainer and Team Selector 2018 - 2024

- As a trainer, I learned how to effectively convey information about efficient workflow techniques and safe machinery operation, and developed my leadership and communication skills
- As a selector I improved my leadership skills by leading and managing my team, and impressed executives with my work ethic as the number one selector, with a weekly performance over 175%

Education

University of Massachusetts, Amherst. B.S. Dec 2024

Major: Computer Science | GPA: 3.72

Greenfield Community College. A.S. 2020

Major: Computer Science | GPA: 3.92

Skills & abilities

- Languages: Python, C/C++, SQL, R, JavaScript, HTML, CSS
- Frameworks: Anaconda, VS Code, Jupyter Notebooks, ESP IDF, PostgreSQL, MySQL, MongoDB, Git, AWS S3, Django, EC2, Linux