

Thomas Callaghan

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Education

BS in Computer Science at the University of Massachusetts Amherst (2019-ongoing)

Wakefield Memorial High School, Wakefield, Massachusetts (2015-2019)

Work History

Software Engineering Intern (2017-08 - 2019-08)

Crunchtime! Information Systems Inc., Boston, MA

- Designed, developed, tested, and deployed the database performance monitoring system. This system analyzes over 500 million data points every month to point out historical performance regressions and detect real-time performance anomalies. Created a graphics interface for the support team to view historical performance interactively. Technologies include Python, Dash, Gnuplot, and an Oracle database back-end.
- Created Slack bot to automate redundant tasks and integrate with several internal and external applications for the POS integration team using Python, Slack APIs, and a MySQL database back-end.
- Automated several tasks for IT department using Python, Bash, and various APIs.

Associate (2016-06 - 2019-04)

The UPS Store #4423, Wakefield, MA

- Assisted customers over the phone, email, and through the door.
- Trained employees in basic to advanced skills in shipping, packing, and end of day procedures.

Projects

Exhibitor at STEAM Night 2018 and 2019

- In 2018, I co-designed, developed, tested, and demonstrated a game controlled entirely by physical movement in 30 days. The game combines movement and math into an educational exercise hybrid using motion detection via a webcam.
- In 2019, I created another physical movement game based on Chrome's "T-Rex Game". This allowed for a recognizable, easy to learn game that encourages movement by people of all ages. Both games utilized all open source software: Linux, OpenCV, Python 3, and PyGame.

Skills

Programming languages: Python, Java, MySQL, Oracle SQL, Bash, and RESTful APIs.

Courses: Intro to Problem Solving with Computers and Calculus 1 and 2.

Honors and Awards

National Honor Society (2019)

Descartes Award for excellent achievement in AP Calculus AB (2019)

Excellent achievement in Banking (2019)

Excellence in learning, respect, responsibility and acceptance in WHS community (2019)

Excellence in Technology Integration (2017)