

Timothy Robert-Fitzgerald

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EDUCATION

Oberlin College, Oberlin OH
B.A., dual major in Computer Science and Politics (expected May 2019)
Relevant Coursework: Data Structures, Systems Programming, Programming Abstractions, Computer Architecture, Algorithms, Artificial Intelligence, Machine Learning and Data Mining, Privacy and Social Networks, Computer and Information Security, Theory of Computation

SKILLS

Languages: C, C++, Java, Python, PHP, JavaScript, Scheme, SQL, shell scripting, HTML/XSLT, CSS/SCSS, AppleScript, Assembly (MIPS)

Experienced with: Architectural concepts (MVC, OOP, RESTful APIs, containerized/distributed microservices), DevOps (Docker, Travis CI, AWS, Webpack), server administration (Apache, Nginx, HAProxy), database administration (MySQL optimization, replication), web frameworks (Symfony, node.js, d3.js, jQuery), Java frameworks (Lucene, JUnit), embedded systems (Arduino, SDR), machine learning (TensorFlow, Keras, Numpy, Pandas)

EXPERIENCE

Web Developer at Environmental Dashboard May 2016 - Present
Environmental Dashboard (environmentaldashboard.org) makes the invisible flows of water and electricity through communities visible and engaging.

- Built, maintained, and ensured the CI/CD of web apps which were featured on kiosks across Oberlin, the Toledo public school district, the Great Lakes Science Center, and [local cable channel 10](#), as well as managed the supporting database and server systems
- Worked on the project for 6 semesters (10 hours per week) and 3 summers (40 hours per week), the latter half of which I worked as team lead with other student programmers; overall, I contributed over 100,000 lines of code: github.com/EnvironmentalDashboard
- Wrote a high-performance data collection daemon in C which perpetually fetches dozens of data points per second from a third-party HTTP JSON-based API which uses OAuth 2.0 authentication for caching in a local MySQL database

Internship at Pulse Insights Summer 2018
Pulse Insights is a quickly growing startup that helps corporate clients gather actionable data through embeddable feedback surveys.

- Wrote a Google Chrome browser extension that facilitated showing demos to potential clients
- Designed surveys for large corporate clients, including Benjamin Moore and Transunion

Independent Projects

Worked as a freelance web developer, creating production websites for:

- A professor in the Oberlin Conservatory of Music: catharinameints.com
- Veterans For Peace: educationnotmilitarization.org

AWARDS

Bonner Center Award for Student Excellence in Community Engagement (April 2018)