

Timothy Robert-Fitzgerald

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EDUCATION

Oberlin College, Oberlin OH
B.A., dual major in Computer Science and Politics (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: JavaScript, PHP, Python, Java, C, C++, shell scripting, Assembly (MIPS), Scheme, R, SQL, HTML/CSS
Databases: MySQL, SQLite, MongoDB, Redis
DevOps: Docker, Travis CI, high availability (corosync, Pacemaker, HAProxy), HTTP servers (Apache, Nginx), SMTP servers (Postfix), cloud providers (AWS, DigitalOcean)
JavaScript tools: React.js, React Native, Electron, Node.js, D3.js, jQuery, Webpack
PHP tools: Symfony, Doctrine ORM, Composer
Java tools: JUnit, Maven, Lucene
Machine learning tools: TensorFlow, Keras, Numpy, Pandas

EXPERIENCE

Co-Founder of CommunityHub June 2019 - Present
Building on the success of Environmental Dashboard in Oberlin and pilot communities, the professor leading the project and I decided to turn it into a company, CommunityHub, to sustainably support further development and enable commercialized expansion into other communities. Although the project continues to expand, few new feature requests have produced diminishing development work, and as system maintenance has been largely automated I am transitioning to a consultant role in the company.

Web Developer at Environmental Dashboard May 2016 - May 2019
Environmental Dashboard (environmentaldashboard.org) makes the invisible flows of water and electricity through communities visible and engaging. After joining at the end of my freshmen year, I spent 3 summers (40 hours per week) and 6 semesters (10 hours per week) working on the project, the latter half of which I worked as team lead with other student programmers. As a full stack web developer, I 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.

Internship at Pulse Insights Summer 2018
Pulse Insights is a quickly growing startup that helps corporate clients gather actionable data through embeddable feedback surveys. During my internship I wrote a Google Chrome browser extension and designed surveys for large corporate clients, including Benjamin Moore and Transunion.

Freelance Projects

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

- StoryIt LLC, a digital sports yearbook and newsletter: storyoftheseason.com
- 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)