

# RYAN O'HARA

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A published co-author, an award-winning application developer, and an open-source contributor, Ryan has lead all phases of the software lifecycle. Ryan is a team player who learns quickly and succeeds because of his focus, creativity, and soft and technical balance. A UPenn alumnus who learned to program while attending Paulsboro HS, Ryan formed his work ethic competing in amateur wrestling.

## EXPERIENCE

**NOVEMBER 2014 – PRESENT**

**SENIOR SOFTWARE ENGINEER, COMCAST**

- Hardened security by leading PHP prepared statements upgrade to mysqli
- Lead a GitHub adoption effort to better version code and manage deployments
- Replaced 8 FTE with linear video view heatmap application of stream outages across areas
- Built automated archival process for audio and video quality data to maintain FCC compliance
- Authored Python testing suite for monitoring database and application status
- Lead a big data effort to search and graph a large volume of time series data with Elasticsearch
- Created application for XOC representatives to do bulk probe updates and create uniformity
- Leveraged in-house cloud alternatives for logging and monitoring as a service
- Developed API to standardize naming convention of streams
- Contributed to enterprise Equilibrium and XOC Dashboard Springboot and Angular applications
- Monitored audio and video quality for all Winter and Summer Olympics
- Received an “Exceptional” job rating during the Pandemic (2020)

**JUNE 2005 – NOVEMBER 2014**

**ANALYST/PROGRAMMER, CHILDREN'S HOSPITAL OF PHILADELPHIA**

- Contributed to an open-source toolkit for creating web apps for integrating and reporting data
- Lead development of a genome sequence analysis platform built with Django and Bootstrap
- Developed a top-ranked, award-winning genome browser iPad application
- Resolved the findings from quarterly PCI audits of CBMI's externally accessible websites
- Lead development a custom Wordpress site leveraging WooCommerce and ShopDock
- Lead development of a shared decision making portal in Django for pediatric chronic illness
- Lead development of a Django-driven immunization alert application built with JQuery
- Developed an open-source, Java-based web platform for analyzing genome variation
- Lead development of a GIS of Autism providers using GeoDjango and Raphael
- Developed an app to deliver data from the first high resolution CNV map of the human genome
- Lead development of a Facebook application to fundraise for ADHD
- Lead a successful pilot of a CMS to enhance collaboration among researchers

## EDUCATION

AUGUST 2002 – JUNE 2006

**BA COGNITIVE SCIENCE**, UNIVERSITY OF PENNSYLVANIA

- Concentrated on Computer Science
- Minored in Linguistics
- Wrestled on varsity team

## SKILLS

- Python
- PHP
- JQuery
- Bootstrap
- Git
- Unix
- MySQL
- Elasticsearch
- Jira
- Slack
- Selenium
- Jenkins
- Eclipse
- Angular
- HTML
- CSS
- Java
- JavaScript
- ExtJS
- Highcharts
- Emacs
- Apache
- Grafana
- Rally
- Teams
- Gimp
- Scrum
- Spring

## AWARDS

"Second Place Winner" in the 2019 Source Code Poetry challenge

Genome Wowser was recognized as a "Best Science App" in the February 2013 issue of Genetic Engineering & Biotechnology News (Vol. 33, No. 3)

## ACTIVITIES

Volunteered for town newspaper, self-employed as software contractor, and coached amateur wrestling