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# Ryan O'Hara

## Senior Software Engineer

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*A published co-author, an award-winning web and mobile developer, and an open-source contributor, Ryan has supported and led all phases of the software lifecycle in various domains including bioinformatics research and cable technology. Ryan is a team player who has learned quickly and succeeded because of his focus, creativity, and soft and technical balance. A UPenn alumnus who learned to program as a student-athlete at Paulsboro HS, Ryan formed his work ethic competing in amateur wrestling. Ryan coached multiple individual and team wrestling state champions before founding an amateur wrestling media company in 2018, which he owns and operates today.*

## EXPERIENCE

### Comcast, Mt. Laurel, NJ - Senior Software Engineer

NOVEMBER 2014 - PRESENT

- Built linear video view heatmap application of stream outages across areas saving business 8 FTE
- Automated archiving and monitoring of audio and video quality data for FCC compliance
- Lead a big data effort to search and graph billions of time series data with Elasticsearch
- Delivered solutions to Equilibrium and XOC Dashboard Spring Boot and Angular applications
- Received an "Exceptional" job rating during the Pandemic (2020)
- Analyzed, designed & implemented code for NWT legacy system & modernized microservices

### Jersey Wrestling, Ventnor City, NJ - Owner & Operator

JANUARY 2018 - PRESENT

- Founded <http://www.jerseywrestling.com>, a website that is viewed over a million times a year
- Curated datasets across high school, college & senior levels using ETL scripting
- Created content daily including rankings, news, profiles, and fan contests
- Signed with Rokfin in 2019 as a content creator on their Web 3.0 blockchain platform
- Accumulated hundreds of paid subscribers, thousands of registrants, and 25,000+ followers
- Earned thousands of dollars in yearly AdSense profit
- Sold hundreds of units of custom merchandise
- Invited to Facebook's Bonus program in 2023 which has yielded month earnings, as well
- Ran marketing campaigns via social media, email, paper & billboard advertising
- Hired first employee in 2024, a sports beat writer for feature articles

### Children's Hospital of Philadelphia, PA - Analyst/Programmer

JUNE 2005 - NOVEMBER 2014

- Developed a top-ranked, award-winning genome browser iPad application
- Created a genome sequence analysis platform built with Django and Bootstrap
- Built a shared decision making portal in jQuery for pediatric chronic illness like Asthma
- Lead development of immunization EHR application that increased HPV vaccinations by 15%
- Developed an open-source, Java-based web platform for analyzing genome variation

## EDUCATION

### University of Pennsylvania - BA Cognitive Science

AUGUST 2002 - JUNE 2006

Concentrated on Computer Science, minored in Linguistics; Wrestled on varsity-team

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## SKILLS

- Python
- PHP
- NodeJS/JQuery
- Bootstrap
- Git
- Unix
- Elasticsearch
- Jira/Rally
- Slack/Teams
- Selenium
- CI/CD
- Eclipse
- HTML/CSS
- Java/JavaScript
- Gimp/Photoshop
- Gradle/Maven
- MySQL/Oracle
- Emacs
- Apache
- Grafana
- Angular/ExtJS
- CloudFoundry
- Scrum/Agile
- Spring/Hibernate

## AWARDS

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

<https://www.facebook.com/CodePoetry/photos/a.152444828255538/1547163702116970/?type=3>

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

<https://www.genengnews.com/best-apps/genome-wowser/>

## PUBLICATIONS

- Alexander G. Fiks, Stephanie L. Mayne, Dean J. Karavite, Andrew Suh, Ryan O'Hara, A. Russell Localio, Michelle Ross, Robert W. Grundmeier. [Parent-Reported Outcomes of a Shared Decision-Making Portal in Asthma: A Practice-Based RCT](#). American Academy of Pediatrics. 2015.
- X Gai, H M Xie, J C Perin, N Takahashi, K Murphy, A S Wenocur, M D'arcy, R J O'Hara, E Goldmuntz, D E Grice, T H Shaikh, H Hakonarson, J D Buxbaum, J Elia and P S White. [Rare structural variation of synapse and neurotransmission genes in autism](#). Molecular Psychiatry. 2012.
- Shaikh, T.H., Gai, X., Perin, J.C., Glessner, J.T., Xie, H., Murphy, K., O'Hara, R., Casalunovo, T., Conlin, L.K., D'Arcy, Frackelton, E.C., Geiger, E.A., Haldeman-Englert, C., Imielinski, M., Kim, C.E., Medne, L., Annaiah, K., Bradfield, J.P., Dabaghyan, E., Eckert, A., Onyiah, C.C., Ostapenko, S., Otieno, F.G., Santa, E., Shaner, J.L., Skraban, R., Smith, R.M., Elia, J., Goldmuntz, E., Spinner, N.B., Zackai, E.H., Chiavacci, R.M., Grundmeier, R., Rappaport, E.F., Grant, S.F., White, P.S., and Hakonarson, H. [High-resolution mapping and analysis of copy number variations in the human genome: a data resource for clinical and research applications](#). Genome Res 19(9): 1682-1690. 2009. ([feature demo](#) on The OpenHelix Blog)
- Porter M.W., D. Milley, K. Oliveti, A. Ladd, R.J. O'Hara, B.R. Desai and P.S. White [Balancing Entrepreneurship and Business Practices for e-Collaboration: Responsible Information Sharing in Academic Research](#). AMIA Annu Symp Proc, 1100. 2009. <https://share.chop.edu>
- Desai B., O'Hara R., White P. [Use of an Enterprise Wiki as a Research Collaboration Tool](#). 31st Annual American Medical Informatics Association Symposium. November 2007.
- White P., Murphy P., O'Hara R., D'arcy M., Carroll S., Jin Y., Fang H., Kim J., Mandel M., Liberman M., McDonald R., and Pereira F. [An automated method for extracting normalized mentions of human genes and proteins in biomedical text](#). 56th Annual Meeting of the American Society of Human Genetics. October 2006