Matthew A Sochor, PhD

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SKILLS

Languages: Python, R, SQL, Java

Big Data Technologies: Docker, Kubernetes, Hadoop, Spark, Hive, Pig

EDUCATION

University of Pennsylvania, Philadelphia, PA   Jun 2008 – Mar 2014
PhD in Biochemistry and Molecular Biophysics

Cornell University, Ithaca, NY   Sep 2002 – Jun 2006
BS in Applied and Engineering Physics

EXPERIENCE

Progressive Insurance   Sep 2016 – Present
Lead Data Scientist
Algorithm development for usage based insurance (Snapshot) program to use mobile and on-board telematics data to predict individual driver risk.

Mobile Defense   Aug 2015 – Sep 2016
Data Scientist
Built machine learning models to predict battery decay and mobile app resource usage for a mobile app, Pocket Geek.

The Data Incubator   Mar 2015 – May 2015
Data Scientist Fellow
Selected from over a thousand applicants to participate in a rigorous two month data science fellowship program.

Center for Retinal and Ocular Therapy   Mar 2014 – Aug 2014
Post-Doctoral Researcher, University of Pennsylvania
Applied PhD work to regulate GFP in mouse retina using oral delivery of a sugar.

Lewis Laboratory   Mar 2009 – Mar 2014
Graduate Student, University of Pennsylvania
Modeled mutants of the lac repressor from *E. coli* and re-wired to build a self-regulating gene delivery system for ocular gene therapy.

PUBLIC
PROJECTS

What Is My Fish:
https://www.whatismyfish.net
Finalist for Erie Hack, a multi-city hackathon to build projects to help Lake Erie. Classifies commonly caught fish species from a photograph and provides anglers with basic information regarding invasive or native status.

Pokémon Go, Your Battery, and You:
https://www.mobiledefense.com/blog/2016/07/28/pokemon-your-phone-and-you/
Blog post to show how Pokémon Go utilizes your phone's resources compared with other popular phone apps.