

Dan Adler

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EDUCATION

Johns Hopkins University *Baltimore, Maryland*

Bachelor of Science in Biomedical Engineering and Applied Mathematics

Minor in Computer Science | Focus in Computational Biology and Optimization

Graduated May 2016 | GPA: 3.91/4.00

SKILLS

Programming: Python, PySpark, R, MATLAB, C++, Java, HTML/CSS, SQL

Algorithms Implemented: Linear and binary integer programming, k-means clustering, k-nearest neighbor regression, random forest regression/classification, decision tree regression, linear regression, logistic regression

Software: Google Cloud Platform, Wordpress, Tableau, Microsoft Office, Photoshop

FORMAL EXPERIENCE

PricewaterhouseCoopers (PwC) *New York, NY*

Associate – Health Industries Advanced Analytics *August 2016-Present*

Intern - Advisory Analytics *June-August 2015*

- Working with provider systems to analyze their patient populations using public/proprietary datasets and machine learning
- Analyzed multi-billion dollar portfolios of provider systems/pharmaceutical companies to drive decision making

Technology Education and Literacy in Schools (TEALS), Microsoft Philanthropies *New York, NY*

Co-Teacher – Brooklyn Preparatory High School *August 2017-Present*

- Working with industry professionals and NYC educators to bring a permanent CS curriculum to 10-12 graders

Johns Hopkins Biomedical Engineering and Applied Mathematics Departments *Baltimore, MD*

Teaching Assistant – Statistical Analysis 1, Systems and Controls Engineering *September 2015-May 2016*

- Worked with professors and fellow undergraduate students to facilitate lectures, office hours, exams and reviews

Computer Aided Medical Procedures (CAMP) Lab *Baltimore, MD*

Undergraduate Researcher – Computer Integrated Surgery *February 2016-August 2016*

- Developed real-time feedback tool to help physicians reduce the number of X-rays taken during surgery

Scheduling at the Malone Center for Engineering in Healthcare *Baltimore, MD*

Undergraduate Team Leader - JHU Applied Math *May 2014-August 2016*

- Using computational algorithms to model staff schedules in medical clinics
- Has reduced provider time spent scheduling such that clinicians can deliver better quality patient care
- Facilitated group expansion by obtaining new projects at Johns Hopkins Hospital

Fogarty Institute for Innovation *Mountain View, CA*

Intern - Materna Medical *June-August 2014*

- Designed and developed a new website targeted at women enrolling in Materna's clinical trials
- Performed verification testing on Materna device prior to use in a clinical setting

Kennedy Krieger Institute (KKI) *Baltimore, MD*

Undergraduate Researcher - Neuroscience Department *January 2013-June 2014*

- Performed sleep-scoring analysis on human and mouse EEG
- Wrote code in Python, MATLAB and R to perform EEG power analysis

HONORS AND LEADERHIP

Richard J. Johns Award for Outstanding Academic Achievement

May 2016

Awarded to seniors by the Johns Hopkins Biomedical Engineering Department

President of Tau Beta Pi Engineering Honors Society Maryland Alpha Chapter

March 2015-May 2016

Must be in top-eighth of junior year engineering class to obtain eligibility

JHU Applied Mathematics and Statistics Mathematical Modeling Prize Winner

March 2015

Awarded for developing scheduling models using integer programming methods [more above]

Dean's List

December 2012-May 2016

Must obtain a semester GPA above a 3.5 to receive notation