

Ophir Gal

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EDUCATION

- **University of Maryland, College Park, MD** **Expected August 2020**
- **Course of study:** BSc. in Computer Science | **Current GPA:** 3.86
- **Honors:** CMNS Dean's List awardee (first semester – present); NSCS Honor Society

EXPERIENCE

Outcomes Technology Intern **May 2019 – July 2019**

Neuro-Oncology Branch, National Institutes of Health (NIH)

- Implemented network-based exploratory data analysis algorithm in R to infer pivotal symptoms in cancer patients
- Developed an R-Shiny web application utilizing the algorithm for data exploration & visualization (to be made public)
- Reported progress in weekly group meetings and presented the work in front of NOB researchers and clinicians
- Co-wrote manuscript describing the work and results (first author), to be submitted to *Bioinformatics*

Data Science Intern

June 2018 – August 2018

Cancer Data Science Laboratory, National Institutes of Health (NIH)

- Applied machine learning in Python to predict complete remission in AML cancer patients, obtaining an AUC of 0.85
- Employed various classifiers (KNN, SVM, RF) and feature selection methods to analyze patients' gene expression data
- Prepared progress reports and presented the project at the NIH Summer 2018 Poster Day
- Co-wrote research paper describing the work and results (first author), published in *Cancer Informatics*

Teaching Assistant

August 2018 – May 2019

Object Oriented Programming I & II, University of Maryland

- Led 2 discussions every week, explaining concepts and addressing questions under time constraint
- Graded quizzes and exams in collaboration with instructors and other TAs
- Held weekly office hours to further explain class topics and help students tackle coding projects

Language Mentor

August 2018 – December 2018

Language House Living-Learning Program, University of Maryland

- Planned & led 2 weekly language cluster activities, conveying knowledge of Hebrew and Israeli culture & history
- Organized & facilitated successful language house events
- Attended weekly meetings with house director and other mentors

TECHNICAL SKILLS

- **Languages:** Java, Python, R, C, C#, Ruby, OCaml, Rust, JavaScript (proficient); HTML, CSS, SQL (familiar)
- **Tools and Frameworks:** Git, R Shiny, Pandas, Scikit-learn | **Operating Systems:** Windows, Unix
 - OO design & development (Eclipse)
 - Software design patterns
 - Machine learning
 - Basic web development (personal site: ophirgal.com)
 - Basic graphic design (Adobe Photoshop)
 - Intermediate music production (Avid Pro Tools, Steinberg Cubase)

UPPER LEVEL COURSES

- Introduction to Data Science
- Introduction to Machine Learning
- Introduction to Data Visualization
- Advanced Data Structures
- Introduction to Natural Language Processing
- Software Engineering

CAMPUS LEADERSHIP

- **President** of IAC Mishelanu Student Organization (national program; paid position) **January 2018 – May 2018**
 - Planned and led weekly funded cultural activities for Jewish and Israeli students
- **Founder and President** of Jammin' at Maryland Student Organization **January 2017 – May 2017**
 - Led weekly musical jam sessions and worked to advertise club and recruit members
- **Staff member** on Birthright Israel trip (Birthright is an international pro-Israel non-profit) **January 2018**
 - Co-led the trip and its activities, while being responsible for 40 participants

MILITARY SERVICE

Boot Camp Commander & Combat Soldier

November 2013 – November 2016

Israel Defense Forces

- Led basic training of a platoon of 90 subordinate soldiers
- Administered physical training, rifle marksmanship, and artillery lessons
- Commanded 10 directly subordinate soldiers