Ophir Gal

Rockville, MD, 20852 (Primary) | College Park, MD, 20742 (Secondary) | ophirgal2@gmail.com

EDUCATION

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

TECHNICAL SKILLS

- **Languages:** Java, Python, R, C, C#, Ruby, OCaml, Rust, JavaScript, HTML, CSS, SQL
- **Platforms:** Scikit-learn, R Shiny, Pandas **| Operating Systems:** Windows, Unix, Linux
  - OO design & development (Eclipse)
  - Design patterns such as MVC, State
  - 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
- Data Structures (advanced structures)
- Introduction to Natural Language Processing

EXPERIENCE

Intern
Neuro-Oncology Branch, National Institutes of Health (NIH) **May 2019 – July 2019**

- 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*

Intern
Cancer Data Science Laboratory, National Institutes of Health (NIH) **June 2018 – August 2018**

- 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
Object Oriented Programming II, University of Maryland **August 2018 – December 2018**

- Led 2 discussions every week, explaining concepts and addressing questions under time constraint
- Graded quizzes and exams in collaboration with instructors and other TAs
- Attended weekly office hours to further discuss and clarify projects and class topics

Language Mentor
Language House Living-Learning Program, University of Maryland **August 2018 – December 2018**

- 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

MILITARY SERVICE

Boot camp commander & combat soldier
Israel Defense Forces **November 2013 – November 2016**

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

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 **January 2018**
  - Co-led the trip and its activities, while being responsible for 40 participants