

CLIFFORD BAKALIAN

215 431 3123 ♦ cliffbakalian@gmail.com ♦ github.com/cliffbakalian ♦ cliffbakalian.dev

EDUCATION

University of Maryland, College Park
Master of Science in Computer Science

Expected May 2021

GPA: 4.000

University of Maryland, College Park
Bachelor of Science in Computer Science
Bachelor of Arts in Philosophy

May 2020

Phi Beta Kappa National Honors Society

GPA: 3.858

WORK EXPERIENCE

University of Maryland
STIC Facilitator

August 2020- Present

- Co-Designed and co-taught a 1-credit course focusing on various programming paradigms
- Produced projects in Prolog, Forth, Intercal, Rust, and a compiler in Flex/Bison and Racket

University of Maryland

January 2018 - Present

Teaching Assistant - Discrete Structures, Programming Paradigms, Object Oriented Programming II

- Lead 50-80 minute discussion sessions on proofs, logic, data structures, Java, Ruby, OCaml, Rust
- Lead a team of 4 on creation of projects, discussion exercises, and exams

OMB Warehouse

June -August 2017, December 2017-January 2018

Data Manager/Analyst

- Designed a TensorFlow neural network in Python to develop autonomous programs and data processing modules

RESEARCH EXPERIENCE

University of Maryland
Undergrad Research Assistant

November 2018 - May 2020

- Developed the iOS mobile application in Objective-C and C for the NewsStand System
- Worked on logical reasoning and analysis of self based reasoning in robots

PROJECTS

Android App Development

- Developed Android mobile games and camera application in Kotlin and Java and C

Web and Development Server

- Host and maintain Linux git servers, discord-bots, websites on raspberry-pi
- Developed APIs and Web apps in HTML, Django and Ruby on Rails

Robotic and IoT Devices

- Built and designed small Arduino robots and IoT devices and data servers in C and Go

Client Side Encryption Application

- Produced C code to handle encryption and SSH/FTP transferring of sensitive data