# RAVI KOTHARI

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## ▸ Education

**University of Maryland-College Park**
B.S. Computer Science 2019
Upper Level Concentration: Biological Sciences

## ▸ Skills

**PROGRAMMING LANGUAGES**
Java
C
Python
Ruby
Swift
OCaml
Prolog
HTML/CSS
SQL
Matlab
y86 Assembly
JavaScript

**OPERATING SYSTEMS**
UNIX/LINUX
OS X
Microsoft Windows

**SOFTWARE**
Tableau
Salesforce
Toad for Oracle

## ▸ Work Experience

**Pfizer Inc.**                                          New York, New York
*Technical Analyst*                                      May 2017 to Aug 2017
- Reduced outages by 15% and enhanced service center monitoring by developing new Tableau dashboards using Tableau, SQL, and ticket submission data
- Improved application managers' efficiency by 20% for analysis of ticket data by performing data analysis using SQL and Toad for Oracle
- Evaluated and provided pros/cons of various technologies, such as SQL and Tableau, based on business needs and target audience

## ▸ Technical Projects

**Egg Timer**                                            Dec 2017 to Dec 2017
- Created a timer counting down from 210 seconds
- Allowed user to pause, add 10 seconds, subtract 10 seconds, and reset the timer
- **Technologies used: Swift, XCode**

**Alien Invasion**                                       Sep 2017 to Oct 2017
- Developing a game using Python and the PyGame library
- Using various PyGame library functions, users are able to control a ship, shoot at enemies and destroy enemy invaders
- **Technologies used: Python, PyGame, PyCharm**

**War Card Game iOS Application**                        May 2017 to Jun 2017
- Used Swift language to program the War card game from scratch
- Designed game UI using XCode software
- **Technologies used: Swift, XCode**

**Personal Website**                                     Dec 2016 to Current
- Developed personal website using HTML and CSS
- **Technologies used: HTML, CSS, Sublime Text**

**Other Projects**                                       Jan 2016 to Current
- SmallC Creation- OCaml
  -Developed a lexer, parser, and evaluator for the SmallC language
  -Lexer transformed a raw file into tokens, parser created a correct expression/statement corresponding to the token input, and evaluator evaluated parsed expressions/statements according to specific rules
  **-Technologies used: OCaml, Atom, Git**
- WordNet- Ruby
  -Implemented the backend of a WordNet parser using a graph structure
  -Used regular expressions to parse through documents and gather the necessary information for the user to input commands such as loading files, adding a Synset/Hypernym, etc.
  **-Technologies used: Ruby, Atom, Git**
- Shell Program- C
  -Created a shell program from scratch on LINUX OS
  -Shell program supported piping, I/O redirection, '&&' operator, etc.
  **-Technologies used: C, Emacs, gdb**

## ▸ Volunteering

**Princeton First Aid/Branchville Volunteer Fire Company**    Princeton, NJ/College Park, MD
*Emergency Medical Technician*                                May 2015 to Current
- Provide patient care and drive in an emergency setting as senior member of the crew in charge of scene
- Ability to work independently or within a team setting
- Train and mentor new members on EMT-B skills necessary for life-saving interventions

## ▸ Achievements

**Maryland State EMT-B Certification**                   Aug 2016

**American Heart Association CPR/AED Certification**     May 2016

**New Jersey State EMT-B Certification**                Aug 2014

**John G. Glowacki**                                     Aug 2014
Valedictorian of EMT class