Jay Facultad

827 11th St NE, Washington, D.C. 20002
jayfacultad@gmail.com | (650) 255-6740
jayfacultad.com **(website and portfolio)**

EDUCATION

TUFTS UNIVERSITY
Post-Baccalaureate Minor,
Computer Science,
January 2019

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
Bachelor of Science,
Biology,
June 2008

LANGUAGES
- C
- C++
- Python
- Assembly for x86-64
- HTML
- CSS
- JavaScript
- C#

SOFTWARE / OTHER SKILLS
- Git
- Github
- Emacs
- Kali Linux
- Wireshark
- JSON
- XML
- jQuery
- Node.js
- MongoDB
- .NET
- Cyber Security

CERTIFICATIONS
Advanced Excel, 2018

AWARDS
Employee of the Quarter,
Genentech, Q4 2012

PROFESSIONAL SUMMARY

Recent computer science graduate seeking role in software development and software engineering.

RELEVANT COURSEWORK
Data Structures, Algorithms, Discrete Math, Machine Structure and Assembly Language, Computer Systems Security, Web Development

PROJECTS
Boggle: game that utilizes DFS and trie trees. jayfacultad.com/boggle
Boston Subway: web app utilizing Google API. jayfacultad.com/bostonsubway
Fuzzer: program that detects website cross-site scripting vulnerabilities.
Incident Alarm: program used to analyze a live stream of network packets or a set of packet captures. Able to detect NULL, FIN, Xmas scans, as well as username and passwords sent in the clear via HTTP or FTP. Implemented with Python and Scapy.
Unblack Edges: program that removes black edges of scanned images.
Sudoku Solver: program that determines completeness and correctness of submitted Sudoku puzzles.
Image Rotation: program that rotates images 90°, 180°, and 270°, as well as flips images vertically and horizontally.
Image Compressor and Decompressor: program that performs bitwise manipulations on image files to compress image file sizes.
Universal Machine: program that inputs universal machine instructions (14 total types) and utilizes registers to execute the instructions.
RPN Calculator: program emulating a Reverse Polish Notation calculator.

WORK HISTORY
Compliance Specialist   **Cambridge, MA**
Shire / Takeda   **May 2014 – January 2018**
- Reduced average investigation report cycle time from 33 to 10 days.
- Reduced backlog of overdue excursion reports from 170 to 0.
- Increased department report on-time closure rate from 7% to 100%.
- Revised Standard Operational Procedures and Best Practices to improve work stream cycle times.
- Eliminated work stream delays in drug product lot release.

Microbiology Laboratory Associate Lead   **San Francisco, CA**
Genentech / Roche   **June 2009 – May 2013**
- Executed microbiology assays to ensure ongoing quality of pharmaceutical drug products as well as evaluated, reviewed, and approved data.