

Jay Facultad

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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

SOFTWARE / OTHER

- Git
- Github
- Emacs
- Kali Linux
- Wireshark
- JSON
- XML
- jQuery
- Node.js
- MongoDB

CERTIFICATIONS

Advanced Excel, 2018

AWARDS

Employee of the Quarter,
Genentech, Q4 2012

PROFESSIONAL SUMMARY

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

RELEVANT COURSEWORK

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

PROJECTS

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 detects and removes black pixel 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 that emulates 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.