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