

# JOHN CHOW

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## EDUCATION

**UNIVERSITY OF CALIFORNIA, BERKELEY, BERKELEY CA**  
B.S. Electrical Engineering and Computer Sciences

ANTICIPATED GRADUATION DEC 2018

## WORK EXPERIENCE

**SOFTWARE DEVELOPER** Trax Aero Inc. (Miami, Florida) SUMMER 2018

- Worked as a software developer in Java and PowerBuilder as part of the software maintenance team
- Debugged and modified base applications for customers such as Air Canada, Southwest, and Transavia France
- Wrote SQL and queries to manually fix errors that occurred either because of a migration issue or an operator error
- Remote desktop in to install and debug program for customers

**WEB DEVELOPER** JJC CONSULTING GROUPS – ONELAB (Ft. Lauderdale, Florida) SUMMER 2017

- Developed forms and functions for customer facing web application. Migrating from legacy app to ASP.net
- Created functions to reconcile difference between data types of Oracle DB and .NET runtime solving implementation problems regarding view rendering
- Designed and edited partial classes to facilitate other teammates in troubleshooting and contributing to source code
- Proofread test cases and verify data structure model

**NURSE/RECORD KEEPER** SUN MAN FOOK AGED HOME (Kennedy Town, Hong Kong) SUMMER 2017

- Recorded daily physical and digital records for patients
- Set up network for upcoming migration to digital records
- Followed required government training on proper knee care for elderly
- Accompanied elderly residents to the hospital and doctor appointments

**IT ASSISTANT** NATIONWIDE LABORATORIES (Ft. Lauderdale, Florida) SUMMER 2014 & 2015

- Guided customers remotely and on-site through installation of company software
- Recovered and refreshed ~100 decommissioned PC's to stay within budget
- Upgraded various software in employee PC's including Microsoft Suite

**DATA PROCESSOR** JJC CONSULTING GROUPS (Ft. Lauderdale, Florida) 2012 - PRESENT

- Managed and maintained financial data entries using QuickBooks
- Supported customers and resolved complaint cases
- Packaged and shipped products while monitoring inbound sales channels

## PROJECTS

### PERSONAL

#### Great Firewall Evasion

- Sends packets through the Great Firewall (China)
- Utilized json and socket libraries in Python to implement my own ping and traceroute
- Implemented a function that fragmented and created duplicate packets with identical seq but different content and ttl's to avoid firewall's from piecing together the message

#### Naïve Git

- Implemented version control system that works almost the same as git using hashmaps, linked lists, and arrays
- Stores previous versions of files in folders labeled with the hashes
- Includes utility functions and a testing suite to make testing much easier

#### UnBetweenness

- Solves a problem where one must find the ideal ordering of people when given constraints in the form of *name1 name2 name3* where name3 cannot be in between name1 and name2
- The problem can be reduced to a 3-SAT problem which is proven to be a NP-complete problem
- Uses *Glucose SAT Solver* by converting the input and processing it to create DAG constraints in the preprocessor
- Includes a post processor to get order of names, an input and output validator, and a testing constraint generator

#### Mod iManage Govern

- Decompiled iManage Govern Migration Tools using JetBrains dotPeek
- This mod utilizes Ookii, Dapper, and iManage libraries to implement a rejection queue during migrations to make medium-large scale migrations (few million records) practical with ui

#### HarvestMod

- Processes the work record from Harvest Billing into a well formatted pdf that is easy to read
- Uses Apache PDFBox library to visualize the data itself including how many hours are left in a billable task and more

## CLASS

**AI Algorithms on Pacman** – wrote Search, Reinforcement learning, Bayes Nets, and Inference algorithms for pacman\

**Database in Java** – database implementation with B+ Tree, Join Algorithm, Query optimization, and Concurrency

**32-bits MIPS processor** – designed 32 bit MIPS processor in Logisim

## SKILLS

- SQL, Python, Java, C, C#, ASP.net, MVC 6, Entity Framework 6, Razor View, Oracle DB
- Algorithms, data structures, database, network protocols