# Daniel Yee

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## EDUCATION

Aug 2013 – Dec 2016 **University of California, Berkeley | Graduated December 2016**
B.S. Electrical Engineering and Computer Science, *College of Engineering*

**Relevant Coursework**:

Programming Methodology @ Stanford University (CS106A)
Structure and Interpretation of Computer Programs (CS61A)
Data Structures (CS61B)
Machine Structures (CS61C)
Microelectronic Circuits (EE40)
Internet Architecture and Protocols (CS168)
Computer Security (CS161)
Efficient Algorithms (CS170)
Database Systems (CS186)
Artificial Intelligence (CS188)

## EXPERIENCE

May 2016 – Aug 2016, June – Jul 2017 **Software Engineer (Ruby on Rails) – SmileyGo**
- Built the budgeting and messaging web app for a startup that helps companies, such as San Jose Water, to search and analyze nonprofits for the purpose of awarding community grants
- Collaborated with the CTO to make design and implementation decisions

Aug 2014 – May 2017 **Shift Supervisor – UC Berkeley Educational Technology Services**
- Supervised four consultants who provided technical and software support at campus facilities
- Monitored and fixed audio and video equipment in lecture halls and computer labs

June 2015 – Aug 2015 **Java Instructor – UC Berkeley Extension**
- Developed and taught a Java programming course for 23 students while overseeing three TAs
- Topics: Control-flow, Recursion, Object-oriented programming, Inheritance, Lists and Trees

May 2011 – Oct 2011 **Cashier and Server – Maui Chicken**
- I supervised shifts while dealing with customer complaints and store upkeep
- I trained new employees in both customer service and cashier procedures
- I motivated co-workers through example by being punctual to work, sociable with customers

## PROJECTS

**Chat —** *Internet Architecture and Protocols in Python*
- Built a Slack-like application that allows users to converse over a network
- Used a non-blocking socket and an internal buffer to queue unread bytes without stalling the program
- Kept track of sockets with port multiplexing to connect different users across networks
- Created dictionaries to keep track of different channels that users could create, join, or broadcast messages on

**Gitlet —** *Data Structures and Algorithms in Java*
- Implemented a version control system that mimics Git
- Created serializable tree structures of commit nodes that store files by using sets, hashmaps, and file copying

**Approximating an NP complete problem —** *Efficient Algorithms in Python*
- Developed a polynomial time algorithm to approximate maximum acyclic subgraph
- Implemented the algorithm to solve hard instances of this well-known NP hard problem
- In the final class competition, my group's algorithm scored in the top 20% of the class

**Machine Learning —** *Artificial Intelligence in Python*
- Used linear regression, linear classification, and approximate Q-learning to implement OCR (optimal character recognition)
- Built a neural network for multiclass classification
- Programmed Pacman into a Q-learning agent that can learn how to become good at any board-configuration

## SKILLS

C, CSS, Git, HTML, Java, Javascript, JIRA, jQuery, Matlab, Python, Ruby on Rails, PostgreSQL