JAE KYUNG CHONG

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EDUCATION

University of California, Berkeley   Class of 2018
- B.S. Electrical Engineering & Computer Science

Relevant Courses:
- Data Structures, Computer Architecture, Algorithms, Artificial Intelligence, Internet Architecture, Computer Security, Database Systems

EXPERIENCE

Logitech   Jun 2017 – Present
Software Test Automation Engineer Intern
- Developed test suite using Python unittest framework to automate testing for mouse driver software
- Specifically tested the internal API, which includes methods to retrieve data about mouse settings

Cal Performances   Jun 2016 – Sep 2016
Web Developer
- Maintained Cal Performances website, adding upcoming events and managing user accounts
- Worked with PHP to automate updates and created a JSON database to manage all events
- Used PHP server-side scripting to dynamically generate web pages of performances

SKILLS
- Programming Languages: Java, Python, C, HTML/CSS, JavaScript, PHP, Ruby on Rails, SQL, jQuery
- Tools / Frameworks: Linux, Git, JUnit, Energia, Selenium WebDriver, GDB

PROJECTS

Database   Feb 2017
- Implemented relational database system in Java with pages with bitmaps and records with schema
- Designed API that allowed users to add, get, delete, and update records on a file called Table.java
- Created a B+ Tree class that handled indexing of each record by storing references to records

DevMatch   Sep 2016
- Created web application in Ruby on Rails that matches software developers to potential companies
- Developed in HTML, CSS (SASS), JavaScript, and Bootstrap for front end, deployed using Heroku
- Used Stripe API to handle subscription payments and Figaro gemfile to hide API keys on Github

PacMan   Feb 2016
- Designed Pacman AI agent in Python that finds paths through the maze and collects food efficiently
- Influenced the path of Pacman agent using search algorithms such as DFS, BFS, and A*
- Exploited minimax/expectimax algorithms to enhance Pacman's AI strategy against ghosts

Measurement   Oct 2016
- Wrote Python script to execute ping, traceroute and dns to analyze data from Alexa top 100 websites
- Parsed command-line outputs to create JSON files with round-trip times, IP addresses, DNS servers
- Ran experiments on traceroutes to find which routes were symmetric and which were load-balanced

Gitlet   Feb 2015
- Developed a simple version control system in Java that mimics some of the basic features of Git
- Used Java standard library to implement init, add, commit, log, branch, checkout functions
- Serialized data in .gitlet file to store old versions of files and commit tree using Serializable interface