KEVIN LIN

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EDUCATION

University of California, Berkeley
Bachelor of Science in Electrical Engineering and Computer Science (EECS) May 2020
Awards: Cal Alumni Association - Leadership Award (2016), President's Volunteer Service Award (2015) Major GPA: 3.51
Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Computer Architecture/Machine Structures, Artificial Intelligence, Designing Information Devices and Systems, Principles of Data Science, Discrete Math and Probability Theory, Computer Security (*planned*), Internet Architecture and Protocols (*planned*), Certificate in Entrepreneurship and Technology (*planned*)

SKILLS

Languages: Java, Python, C, SQL, HTML/CSS, Assembly (RISC-V), Scheme (LISP)
Technologies and Libraries: Spring Boot, Mockito, REST, Apache, Maven, Solr, ZooKeeper, Tomcat, NumPy, Pandas, Matplotlib, Seaborn
Development: Git, Agile, JIRA, Jenkins, Confluence, IntelliJ, Eclipse, Jupyter Notebook, Expo

WORK EXPERIENCE

MobiTV, Software Engineering Intern (Java Platform & Server Team) May 2018 – Aug 2018
- Refactored and migrated the stream manager component to Spring Boot framework and resolved file dependencies using Maven
- Wrote unit tests using Mockito to verify REST API functionality and health checks to ensure availability of various microservices
- Converted Google BigQuery user behavioral data from MessagePack to JSON format for the TV show recommendation service

CS 61A/61B Course Staff, Academic Intern Jan 2017 – Present
- Clarify coding concepts and explain lab questions to students taking UC Berkeley's introductory computer science courses
- Support a class size of over 1000 students by helping over 60 students at a time during office hours with high question demand

Pioneers in Engineering, Web Developer Sep 2016 – Dec 2016
- Updated and developed new features, such as an interactive clickable timeline with competition info, for the organization's website
- Planned and ran an annual cost-efficient robotics competition for over 30 local underprivileged Bay Area high schools

Abitalk, Mobile Application Quality Assurance Engineer Jul 2015 – Aug 2015
- Compiled and edited word definitions digitally for educational mobile apps, such as vocabulary decks and games for 1st to 6th graders
- Proofread code to ensure definitions and pictures correspond to the correct words and manually tested edge case app functionality

SELECTED PROJECTS

JazzX: Intelligent Music Generation April 2018
- Built a model that generates new jazz melodies in similar styles to input music files using K-Means clustering and Markov Chaining
- Extracted relevant information, such as chord type and note range, from MIDI files and converted to vector format to run clustering
- Implemented node objects which store song feature data to create conditional probability tables detailing the order of notes chained

Berkel-pee Oct 2017
- Created a mobile app of a bathroom rating system for UC Berkeley campus bathrooms using React Native and Expo at Cal Hacks
- Implemented a FlatList data structure to store bathroom location data containing building name and floor number, parsed from online
- Utilized the cloud-hosted database feature of Firebase to record the cleanliness rating count of each bathroom, inputted by each user

Voice Controlled Car May 2017
- Designed the circuit board and wrote code for a voice controlled mini-car that uses principle component analysis (PCA) and K-Means classification to associate 4 user-chosen words with 4 commands: move straight slow, move straight fast, turn right, turn left
- Utilized a closed-loop control system to provide a data-intake feedback loop to ensure the car maintains straightness when driving

Database Mar 2017
- Built a relational database management system (DBMS) and a domain specific language (DSL) similar to SQL that Regex parses user-inputted commands such as create, load, store, drop, insert into, select, and join to manage a database of tables
- Developed table, column, row, and value classes that capitalized on OOP and implemented the Cartesian join algorithm from scratch

EXTRACURRICULARS

DiversaTech Consulting, Technology Consultant Sep 2017 – Present
- Analyzed article engagement and stock price data from a major creativity software company to redefine their public relations metrics
- Conducted market research to create student profiles to develop strategies for Chegg to expand their tutoring services internationally

Evergreen Engineering and Computer Science Society (EECSS), Founder and President Sep 2015 – May 2016
- Taught Python computer programming, through guided concept-driven mini-projects designed by myself, and electronic devices building, such as portable phone chargers, to over 30 middle and high school kids at my local library
- Arranged community-wide speaking events from guests of top Bay Area companies and universities, such as Google and Stanford, which attracted over 50 attendees, with the purpose of sharing professional experiences and inspiring students to pursue engineering