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Kevin Chien

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Education

University of California, Berkeley
B.S. in Electrical Engineering and Computer Science (GPA: 3.712) Aug 2016 - May 2020
Coursework: Algorithms and Intractable Problems (170), Artificial Intelligence (188), Data Structures and Algorithms (61B), Computer Architecture (61C), Database Systems (186, *in progress*), Discrete Math & Probability (70), Foundations in Data Science (C8)

Experience

Faraday Technology Software Development Intern June - July 2018
- Developed IntelliJ plugins using Java Swing, featuring a UI for code generation for usage of internal Java libraries to do SQL operations and a template generator for Java Spring web applications
- Built an editor UI and parser for human-friendly editing of cron expressions using JQuery and Bootstrap, and integrated it with a Spring web app using JSP, Ext JS grid, Oracle SQL for managing a list of cron schedules
- Upgraded a Angular 4 web application to Angular 5 and Angular 6, fixing dependency conflicts and bugs, and analyzing speed improvements in Angular's new compiler

Pioneers in Engineering Website - Project Manager (1 year), Maintainer/Dev (2+ years) Aug 2016 - Present
- Oversaw team and developed content and styles for http://pioneers.berkeley.edu to convey content for potential sponsors, 300+ students, and 24 high schools per season
- Trained and managed team of 7 to redesign and implement 10+ pages of content using HTML, SCSS, Jekyll, JQuery, Bootstrap, and Github to provide responsive content, reviewing pull requests
- Worked on AngularJS app to pull and display live match data using Google Sheets API

Pioneers in Engineering React UI Software Developer (1 year) Aug 2016 - May 2017
- Developed as part of a team a cross-platform desktop app using React, ES6, Redux, and Electron for students in our competition (300+ annually) to use to program and control robots
- Built UI features, including code editor preferences, cached settings, robot status indicators, animated tutorial, file I/O operations and Mocha unit tests

Additional Projects

Flipped Classroom | Side Project June 2018
- Added live teacher/student quiz interaction using Socket.io to an Express.js web application.

SQL-Like Interpreter | Data Structures Project March 2017
- Designed and built a SQL-like relational database management tool with Java OOP using Git in a team of 2.
- Developed table read, select, join, and conditionals operations, and wrote JUnit tests.

BearMaps | Data Structures Project April 2017
- Built the Java back-end REST API of a Java Spark web app that handles image delivery for map queries.
- Implemented A* search for shortest directions from any start to any destination, and autocomplete with tries.

Other Work / Volunteer Experience

UC Berkeley EECS Department / DSEP
EECS Tutor/ ASE (Paid): Taught circuit analysis, linear algebra, and iPython in labs and OH Fall '17
EECS Academic Intern: Taught in offices hours and labs for Data Structures. Spring '18
DSEP Associate: Developed auto-graded iPython notebooks and taught statistics and NumPy. Spring '18

Skills

Programming Languages: Python, Java, JavaScript, C, SQL, HTML, CSS, RISC-V
Web Dev: React.js (ES6), JQuery, Jekyll, SCSS, Angular, Bootstrap, Express.js, Java Spring
Data Science: NumPy, matplotlib, Apache Spark, Data Inference, Data Visualization
Software: Git, Node, IntelliJ, Redux, ES6, Electron, JUnit, Mocha, Travis CI, OpenMP, SIMD, Unix, Windows
Other: IntelliJ SDK, Java Swing, LaTeX, Gulp, Ant, Docker, Socket.io