kevinchien@berkeley.edu kevinchien.me

Kevin Chien

(510) 999-2661 Github: kev-chien LinkedIn: kevinchien17

Education

University of California, Berkeley

B.S. in Electrical Engineering and Computer Science (GPA: 3.712)

Aug 2016 - May 2020

Courses: Algorithms (170)

Artificial Intelligence (188)

Computer Architecture (61C - C)

Data Structures (61B - Java) Discrete Math & Probability (70) Database Systems (186 - SQL) Intro Data Science (C8)

Computer Programs (61A - Python)

Skills

Programming Languages: Python, Java, JavaScript, C, SQL, HTML, CSS

Front-End: React (ES6), Redux, JQuery, Jekyll, Angular, EJS, Bootstrap, SASS/CSS, Tailwind.css

Back-End: Node, Express.js, Oracle SQL / MySQL, Java Spring, AWS EC2

Data/ ML: NumPy, matplotlib, Apache Spark, Ray/RLlib

Other: Git, JUnit, Mocha, Travis CI, Linux/Unix, Windows, Ant, Docker, Electron, socket.io, Cron

Experience

Learning Traffic Lab Undergraduate Researcher (Sept 2018 - Present)

- Maintaining Flow, an open source Python framework for facilitating control and deep reinforcement learning in autonomous vehicles by leveraging an open source traffic simulator, SUMO with deep RL libraries
- Developed the front-end and database API of a web app using JavaScript, Node, Express.js, HTML, and EJS, integrating with UI to display a leaderboard of solutions for each benchmark on different routes

Faraday Technology Software Development Intern (June - July 2018)

- Developed IntelliJ plugins using Java and built a Swing UI for showing fields and methods of internal libraries for generating code, and a template generator for Java Spring web applications
- Built with JQuery and Bootstrap a scheduling UI and JS parser class for making and editing cron expressions
- Upgraded an Angular 4 web application to Angular 5 and Angular 6, fixing dependency conflicts and bugs

Pioneers in Engineering Web Project Manager (2017 - 2018), Web Developer/ Maintainer (2016 - Present)

- Trained team and maintained Github repo, issues, PR's, and deployment for http://pioneers.berkelev.edu
- Spearheaded site-wide redesign and development in team of 7 and led project to completion, implementing responsive and human-centered design using HTML, SCSS, JavaScript, Jekyll, and Git
- Implemented AngularJS app features to pull and display live match data using Google Sheets API

Pioneers in Engineering Software Developer (2016 - 2017)

- Developed UI and features for educational desktop app using React, ES6, Redux, and Electron for 300+ high school students per season to learn to program & control robots
- Added asynchronous file I/O operations with Redux Sagas and unit tests, and persistent settings

UC Berkeley EECS Department CS 61A Academic Intern (Spring 2017)

Taught Python and CS fundamentals through helping students in labs and office hours (Spring 2017)

Projects

Cron Scheduler UI | Faraday Technology (July 2018)

- Designed and built a UI using JavaScript and JQuery to generate Linux cron expressions for automating jobs
- Integrated UI with a Spring web application to edit schedules from a pop-up from a grid of schedules

Kingdom Conquer | Algorithms Project (April 2018)

 Designed and developed Python solver to an NP-hard graph problem and optimized solutions for 700+ input cases, combining Dijkstra's and TSP algorithms using Docker, Git and BitBucket, working in a team of 3

Database Client | Data Structures Project (March 2017)

- Designed and built from scratch a SQL-like relational database client with Java OOP using Git in a team of 2.
- Developed table read, save, select, natural join, and where operations, and wrote JUnit tests