Peter **Kim**

Software Engineer

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Education

University of California, Davis *Davis, CA*

Bachelor of Science in Computer Science *March 2021*

Dean's List, College of Engineering 2017

Skills

Programming/Scripting Python · C/C++ · HTML · CSS · R · MySQL · Unix/Linux · Git

Frameworks Django · React · Node.js

Relevant Coursework Object-Oriented Programming · Data Structures · Algorithm Design · Software Engineering

Experience

Full Stack Web and Database Developer *Davis, CA*

Carvajal-Carmona Lab (UC Davis) *January 2020 - March 2021*

- Developed cancer research lab web apps using Django, AngularJS, and MySQL.
- Implemented data forms for easy data collection and dynamic allocation to MySQL database.
- Created scripts to organize and filer 400,000+ rows of cancer data for analysis using Python.

Software Research Intern *Davis, CA*

Computational Communication Research Lab *September 2020 - March 2021*

- Built a social media simulation to study the effects of fake news using React, Node.js, and Firebase.
- Wrote a script that automates user ID creation and stores into Firebase Realtime Database.
- Practiced Scrum development in weekly sprints with 4 other developers.

Co-Director of Technology *Davis, CA*

Davis Computer Science Club (DCSC) *June 2018 - January 2019*

- Maintained the DCSC website using HTML, CSS, Node.js.
- Embedded Google Forms within websites for weekly club sign ins.
- Conducted meetings with DCSC Tech Team to talk about issues/bugs regarding the current website.

Projects

BookWorm App *March 2021*

- Co-developed an iOS application that facilitates buying and selling of books.
- Implemented features such as book matching, filtering, and Object Character Recognition for book title and author.
- Created a login view page and phone number authentication system using Firebase Authentication API.
- Enabled book searching and user data storage using CoreLocation, Firebase, and Open Library API.

Poplar Wood Image Processor *November 2020*

- Created a computer vision algorithm in Python (OpenCV) that detects, measures, and categorizes tree vessel elements.
- Worked with four developers along side research geneticist to improve algorithm efficiency and capabilities.
- Built logistic regression models with congregated data, finding 27 percent classification accuracy.

Noisy Channel Spellchecker *April 2019*

- Programmed a spellchecker built for Natural Language Processing class using Python and Noisy Channel Model.
- Implemented functions that read test files and train data for modeling.
- Developed custom language model which exceeded Backoff Model by 10 percent.