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 · Flask · 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)   *February 2020 - March 2021*

- Developed and designed web applications that facilitates management of hundreds of cancer research data.
- Implemented data forms for easy data collection and dynamic allocation to MySQL database.
- Created scripts to organize and filter 400,000+ rows of cancer data for analysis using Python.
- Tech used: Django, AngularJS, MySQL, 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 on the internet.
- Devised and developed an authentication workflow and web caching feature that calculates user attitude scores.
- Designed Firebase Realtime Database schemas to store user interaction data.
- Practiced Scrum development in weekly sprints with 4 other developers.
- Tech used: React, Node.js, Firebase, Python.

Co-Director of Technology   *Davis, CA*

DAVIS COMPUTER SCIENCE CLUB (DCSC)   *June 2018 - January 2019*

- Worked with a tech team to develop the Davis Computer Science club website.
- Designed and implemented various front-end user interfaces.
- Conducted meetings with DCSC Tech Team to talk about issues/bugs regarding the current website.
- Tech used: HTML, CSS, Node.js.

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 along side four developers and 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.