# RICHARD KIM SOFTWARE DEVELOPER + THINKER

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# **EDUCATION**

#### **University of California, Davis**

B.S. Computer Science | Class of 2019 Minor in Linguistics CS GPA 3.9/4.0

### LANGUAGES

#### **Proficient**

Python C++ C

#### **Familiar**

HTML/CSS Javascript R

# **COURSEWORK**

Object-Oriented Programming
Data Structures and Programming
Algorithm Design and Analysis
Probability and Statistical Modeling
Programming Languages
Operating Systems
Modern Programming Tools
Web Programming
Human-Computer Interaction
Natural Language Processing
Text Processing Corpus Linguistics
Computational Linguistics
(G) Computational Modeling of Language
(G) Statistical Analysis

#### **OTHER**

Grow with Google Developer Scholarship CITI Certified Researcher

# **WORK**

**Sound and Performative Speech** – Researcher JAN 2018 - PRESENT | DAVIS, CA Involved in two grant projects, Tools for Listening to Text-in-Performance and SpokenWeb, exploring tools to analyze poetry archives, providing data analysis and visualization, and calculating new methods to analyze pitch and timing in speech.

**Language, Multimodal and Interaction** – Researcher MAR 2018 - DEC 2018 | DAVIS, CA

Assisted with a research project to build a persuasive dialogue system using machine learning under Professor Zhou Yu. Designed methods to collect over 1000 conversational data using a dialog AI framework.

Computational Lingustics – Researcher
JUN 2017 - JUN 2018 | DAVIS, CA
Worked on a research project funded by the U.S.
Department of Defense to expand resources for
speech-enabled systems under Professor Kenji Sagae.
Developed neural models and lattice rescoring methods
for paraphrasing and simplifying text using word
embedding, cosine-similarity, and language models.

**Data Science Initiative** – Student Developer OCT 2017 - JUN 2018 | DAVIS, CA Developed a responsive HTML5 and CSS architecture for existing web archive as well as performing various web scraping, text mining, and other scripting tasks. Implemented natural language processing processes for classifying and topic modeling, performing statistical

**UC Davis IET** - Student Developer MAR 2017 - OCT 2017 | DAVIS, CA

data analysis, and visualizing model outputs.

Managed ServiceNow instances to help over 575 process users across 20 independent IT organizations. Maintained front-end portal by QA testing, communicating with back-end SQL database, and writing technical documentation.