



David Pham

Software Developer



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<https://github.com/ddkpham>

Technical Skills

Programming Languages: C / C++ / Python / SQL / JavaScript / HTML / Java

Technologies: Android Studio / Gitlab / Bootstrap / Flask / ReactJS

Operating Systems: Mac OS X / Linux / Windows

Knowledge: Web Dev / Android Dev / Pepper Software / MySQL database management

Computer Science Technical Projects

Pepper Robot: Interactive ChatRobot App

(Software Engineering Special Course Project)

Oct 2018 - Jan 2019

Supervised by Dr Angelica Lim, Simon Fraser University Rosie Lab

- Selected by Dr Lim to special robotics project option with Pepper, SFU's robotics lab robot
- Created an android application that interacts with Pepper's ALDialog system to implement an interactive chat messaging app
- Interacted with a Google Cloud Platform to house a MySQL database for Android user data

Pepper Robot: Interactive Hangman Game

(Software Engineering Special Course Project)

Oct 2018 - Jan 2019

Supervised by Dr Angelica Lim, Simon Fraser University Rosie Lab

- Created a vanilla JavaScript hangman game on Pepper's tablet that allowed a Pepper user to play hangman with an android user
- Implemented Pepper service using naoqi library and tablet service using Robotutil JS library
- Interacted with ALmodules from Pepper's naoqi services to create an intuitive human-robot interaction and animations

FitTrkr: Personal Fitness Plan Tracker App

(Database Course Project)

May 2018 - Aug 2018

- Created a fitness and workout tracking web app using Python's Flask microframework
- Optimized the app's database schema using entity-relation diagrams and normalization
- Used raw SQL queries to interact with a MySQL database

Personal Project Experience

Fantasy Football Oracle

(Python, Flask, Plotly, HTML, JS, CSS)

Dec 2018 - Current

- NFL fantasy application used to compare player statistics (week to week, season long) for a competitive advantage in fantasy football
- Webscraping implemented with Beautiful Soup library and data analysis/visualization implemented with Dash by plotly
- Front end implemented with HTML, CSS, vanilla JavaScript and Bootstrap

Work Experience

GeNa Lab (Genomic and Network Analysis)

Research Assistant supervised by Dr. Peter Chow-White

Sept 2017- Current

- Contributed to the development of the POG II survey targeting the genomics space
- Presented and co-authored research papers for communication conferences
- Produced a systematic review of literature from 2014-2017 focusing on interdisciplinary sites of convergence between bioinformaticians and clinical geneticists
- Lead mini-training sessions on citation management systems (Zotero)

Volunteer Experience

Rosie Lab (Robots with Social Intelligence and Empathy)

Software Developer / Research Assistant

Jan 2019 - Current

- Developed software to investigate Pepper's emotional transfer ability using animation library
- Performed data collection and interfacing training for HCI researchers
- Collected data from 80 participants via face recognition software, survey and affect tests

Education

Simon Fraser University

Bachelor of Computing Science, Second Degree
Grade Average (current): 3.4/4.33

Sept 2017 - Current

University of British Columbia

Bachelor of Science: Microbiology and Immunology
Grade Average: 3.7/4.0

Sept 2011 - Apr 2016