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# David Pham

## Software Developer



<https://github.com/ddkpham>

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ddkpham.com

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## Technical Skills

**Programming Languages:** Javascript / Python / C/C++ / Java

**Technologies:** React / Material UI / D3/ ag-Grid / Enzyme/ Jest / React-testing-library

**Development Platforms:** Web / Android / Desktop

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

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## Work Experience

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### Micheal Smith Genome Sciences Centre - Vancouver, BC

Software Developer - Data Sharing Applications Team

Apr 2019 - Jan 2020

- Developed GUI (React) and data visualization components of GraphKB (Graph view / Tables)
- Converted GraphKB to use React hooks and wrote tests using Enzyme and react-testing library
- Implemented data visualizations using D3 and ag-Grid
- Designed optimized API calls to GraphQL-esque endpoints

### GeNa Lab (Genomic and Network Analysis)

Research Assistant / Web Developer

Sept 2017- Apr 2019

- Designed, implemented and maintained the lab's website [www.genalab.org](http://www.genalab.org)
  - 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)
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## Technical Projects

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### 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

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## 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
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## Personal Project

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### 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
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## Volunteer Experience

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### 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
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## Education

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### Simon Fraser University

Bachelor of Computing Science, Second Degree

Grade Average (current): 3.5/4.33

Sept 2017 - Current

### University of British Columbia

Bachelor of Science: Microbiology and Immunology

Grade Average: 3.7/4.0

Sept 2011 - Apr 2016

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## Research and Publications

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- *Investigating Positive Psychology Principles in Affective Robotics ( software developer )*  
Affective Computing & Intelligent Interaction (ACII 2019) poster acceptance
- *Genomics in Canadian Cancer Research and Care ( co-author )*  
Canadian Communication Association Conference (CCA 2019)