



David Pham



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EDUCATION

Simon Fraser University, Burnaby, BC, Canada
Bachelor of Applied Science, Computing Science

01/2017 - 01/2021

GPA: 3.50/4.33

University of British Columbia, Vancouver, BC, Canada
Bachelor of Science, Microbiology & Immunology

09/2011 - 04/2016

GPA: 3.7/4.0

TECHNICAL SKILLS

Languages: JavaScript (fluent) / Python (proficient) / C/C++ (proficient) / Java (familiar) / TScript (familiar)

Technologies: React / GIT / TCP/IP / Linux / D3 / Ag-Grid / GCP / Azure / AWS / Flask / Express / MySQL

Testing/CI/CD: React-testing-library / Docker / Jest / Azure DevOps / Travis-CI / Bamboo CI / Selenium

WORK EXPERIENCE

Sun Labs - Software Developer / RA

12/2019 - 04/2020

- Built protein analysis and visualization tools using ReactJS, D3, and Material UI
- Developed and deployed application using Docker containers with Azure App Service and DevOps
- Implemented continuous integration and deployment pipeline using Azure DevOps

BC Cancer Agency , Genome Sciences Centre - Software Developer Intern

04/2019 - 01/2020

- Designed and developed graphical data exploration/visualization tools using React, D3, ag-Grid
- Utilized React hooks to increase rendering speed, code reusability, and simplify development flow
- Increased overall code test coverage of application to 80% using React-testing-library and Jest

GeNA Lab (Genomic and Network Analysis) - Software Developer / RA

09/2017 - 04/2019

- Designed, implemented and maintained lab's website www.genalab.org using JavaScript, HTML, CSS
- Developed citation and annotation tools using Python and C++

RESEARCH AND TECHNICAL PROJECTS

Investigating Positive Psychology Principles in Affective Robotics

- Human Robot Interaction (HRI) research to investigate the effects of affective emotional transference
- Built Using: JavaScript, Bootstrap, Python, C++, Android Studio, Naoqi NLP modules, GCP, HTML, CSS

Poster Acceptance - *Affective Computing and Intelligent Interaction (ACII 19')*, University of Cambridge
Published - *Multidisciplinary Innovation in Engineering Science & Technology Journal*

Compression Algo Visualizer - ddkpham.github.io/multimedia_website/#/jpeg

Course Project for Multimedia Systems

- Visualization of fundamental compression algorithms: JPEG, Huffman, Arithmetic and Adaptive forms
- Built Using: React, Python, PIL, Flask, React-Bootstrap, MUI

RESEARCH AND TECHNICAL PROJECTS

Thrive Mind

Course Project for Web System Architecture / Cloud Computing

- A personalized health service consolidation application that puts the patient experience first
- Developed CI/CD pipeline with Docker and Azure DevOps, authentication system, and session via JWT
- Built Using: Azure cloud services, GCP, Docker, Kubernetes, Python, Flask, React, MySQL

Forget Me Not - nwHacks2020

- A prescription tracking and reminder application to combat common primary care problems
- Built Using: Google Vision API, Google NLP, GCP, AWS, ReactJS, NodeJS, Alexa

Multidisciplinary Knowledge Co-production of Genomic Big Data

- Investigated practices, visions, and tensions among multidisciplinary group of medical experts

Poster Acceptance - *Canadian Communication Association Conference (CCA 19') UBC*

Fake News Classifier

Course Project for Artificial Intelligence Survey

- Machine learning classifier using decision trees to identify real and fake news articles or posts
- Built Using: Python and Weka, data mining software

Telepresence Robotics Messaging Application

Course Project for Software Engineering

- Messaging platform between an Android user and Pepper robot owner
- Built Using: Google Cloud Platform, Cloud Storage, Python, C++, JavaScript, Android Studio, Java

FitTrkr

Course Project for Database Systems

- A health optimization application with a focus on nutrition and fitness
- Built Using: MySQL, Flask, Python, Bootstrap, Git

VOLUNTEER ACTIVITIES

Software Developer / Research Assistant

12/2018 - 04/2019

RoSIE (Robots with Social Intelligence and Empathy) Lab, SFU

- Developed robotics software using C++, Python, JavaScript for Human Robot Interaction experiments
- Assisted in the development of methodology for experiments
- Conducted HRI experiments as Pepper robot operator

Program Coordinator Assistant

09/2016 - 02/2017

English Language Institute, University of British Columbia

- Assisted program coordinator with her general duties and responsibilities
- Helped organize, plan, and execute ELI social events for international students

Student Volunteer

09/2015 - 01/2016

Canadian Red Cross Society - Short Term Loan Program

- Helped organize, clean, and maintain short term loan equipment