JANET WANG

■ janet.wang.13@gmail.com

(a) jwangwangj.github.io

(P) jwangwangi

■ janet-wang-010

(613) 890-0056

EDUCATION

UNIVERSITY OF TORONTO Graduation: November 2020

Honours Bachelor of Science, Major in Computer Science and Major in Statistical Science

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER – TutorOcean

August 2020 - Current

Web application developer at TutorOcean working in React, Meteor and MongoDB

- Web application development and maintenance
- Improve search engine optimization (SEO) by optimizing autogenerated pages and DB queries
- Design and implement custom content management system for non-tech teams
- Work with customer service, marketing and sales team to meet business requirements, provide technical support, training and document user menus

MOBILE DEVELOPER - TutorOcean

Summer 2019

Worked on the iOS and Android apps in React Native (https://app.tutorocean.com/)

- Built the mobile app based on a provided design
- Implemented a secure payment system using Stripe mobile payment API

RESEARCH ASSISTANT - uOttawa BMI Lab

Summer 2017

Publication · September 2019 · Li, L., Abou-Samra, E., Ning, Z. et al. An in vitro model maintaining taxon-specific functional activities of the gut microbiome. Nat Commun 10, 4146 (2019). https://doi.org/10.1038/s41467-019-12087-8

• Participated in design and implementation of research models for in vivo compositional gut microbiome profiles in drug response research, supervised by a PHD research fellow

PROJECTS

Al/ML – Handwriting Analysis – Trained model to predict bottom half of an image based on the top, using Bayesian variational autoencoders with stochastic variational inference, using Python, Julia, autograd, jax, NumPy, Matplotlib (https://github.com/jwangwangj/mnist-vae)

Computer Graphics – Mass Springs System – Implementation of a mass-springs modelling system through sparse matrices, using C++ and libigl for more realistic animation style

Web Engineer – My Ethical Garment – 4 months – Developed a minimum viable product for an online shopping portal, using React frontend using the AntD library, Flask/SQLAlchemy backend, Docker, AWS (https://github.com/SmitRao/meg) IoT – Cignal control system – Implemented a sample IoT software system for controlling greenhouse temperature and humidity in C, exploring handshakes and TCP socket communication with a central controller

SKILLS

LANGUAGES – Python, Java, C/C++, C#/.NET, Bash, R, React, React Native, JS, HTML5, CSS, Julia, Verilog, Prolog FULL STACK – Git, Android Java, Flask, Node.js, MongoDB, SQL/PostgreSQL, Docker, AWS, Heroku LIBRARIES/API – autograd, jax, AntD, SQLAlchemy, ggplot, NumPy, Matplotlib, OpenGL OTHER – MS Visual Studio/VSCode, Unix/Linux, Agile, Kanban, Figma, Photoshop, Premiere Pro, Latex Tech – OOP, Design Patterns, Relational Databases, UML, Computer Graphics, Computational Linguistics Data Science – Machine Learning, Data Analysis, Probability Theory