JANET **WANG**

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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

Working on the development team at TutorOcean as a web developer primarily in Meteor and MongoDB

- Improving and implementing a site-wide design overhaul to optimize SEO
- Developing technical solutions to meet business requirements, documenting procedural guides

MOBILE DEVELOPER – TutorOcean   Summer 2019

Worked on the development team at TutorOcean on the first release of their mobile app in React Native

- Built the mobile app UI based on a provided design using secure server calls.
- 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

MEG – *4 months* – Developed a *minimum viable product* for an online shopping portal *My Ethical Garment* with a *React* frontend using the *AntD library*, *Flask/SQLAlchemy* backend, *Docker* and *AWS*. (*https://github.com/SmitRao/meg*)

MNIST – Investigation of Bayesian Variational Autoencoders (Kingma and Welling 2013) using the famous MNIST data set to predict bottom half of an image based on the top using the trained model with stochastic variational inference *(Python, Julia, autograd, jax, NumPy, Matplotlib)*

Cignal control system – Implemented parts of a sample *IoT software system Cignal* for controlling temperature and humidity using *C*, exploring handshakes and maintaining TCP socket communication with a central controller.

SKILLS

LANGUAGES – Python, Java, C/C++, C#/.NET, Bash, R, React, React Native, JavaScript, HTML5, CSS, Julia, Verilog

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

Technologies – OOP, Design Patterns, Regex, Relational Databases, Web Programming, Computational Theory, Software Engineering, Systems Programming, UML, Computer Organization, Computer Graphics, Computational Linguistics

Data Science – Machine Learning, Data Analysis, Probability Theory