Godwin K. Woo

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Python AI developer with a Master's degree in Experimental Medicine (Artificial Intelligence in Drug Discovery) and 10 years of software engineering experience in C# and React.

EDUCATION

MSc in Machine Learning, University of British Columbia, 2019

BSc in Computer Science, University of British Columbia, 2003

BA in Economics & Finance, University of British Columbia, 2001

SKILLS

Programming Languages:
Python
C#
Solidity
TypeScript

Web Development:
React
HTML5
Tailwind CSS

Data Science:
TensorFlow
Jupyter
Anaconda
SQL Server

Tools:
Slurm
PyCharm
IntelliJ
VSCode
Github

CAREER SUMMARY

Experienced Python AI Developer with a Master's degree in Experimental Medicine, specializing in Artificial Intelligence for Drug Discovery. Over 10 years of software engineering experience in C# and React. Proficient in big data machine learning, blockchain development, and full-stack web development. Passionate about leveraging advanced technologies to drive innovation and efficiency.

PUBLICATIONS

1. G. Woo, et al. (2019) "DeepCOP–Deep Learning–Based Approach to Predict Gene Regulating Effects of Small Molecules." *Bioinformatics*
2. Fernandez, M., Ban, F., Woo, G., et al. (2019) "Quantitative Structure-Price Relationship (QS$R) Modeling and the Development of Economically Feasible Drug Discovery Projects." *J Chem Inf and Modeling*
3. Fernandez, M., Ban, F., Woo, G., et al. (2018) "Toxic Colors: The Use of Deep Learning for Predicting Toxicity of Compounds Merely from Their Graphic Images." *J Chem Inf and Modeling*

PROFESSIONAL EXPERIENCE

DeepCOP Solutions
Full Stack Web3 Developer | Vancouver, BC | Jul 2020 – Present (Part Time)
- Managed Web3 developers to create a blockchain social media platform in React and Node.js
- Managed and developed Web3 Crowdfunding platform in React and Node.js
- Wrote EVM testnet price updater based on real-time 5 min Uniswap mainnet prices
- Deployed private Ganache testnet optimized to <100mb/week on server for 5 min price updates

Vancouver Prostate Centre
Big Data Machine Learning Graduate RA | Vancouver, Canada | Sep 2017 – Oct 2019
- Analyzed and preprocessed data for model training.
- Optimized DNN models using Bayesian and Grid Search techniques.
- Utilized Slurm for parallel model training on a 20-30 GPU cluster.
- Developed ML training tools for prediction score evaluation and real-time stat summaries.

UBS Investment Bank
C# and HTML5 Software Developer | New York, NY | Oct 2010 – Aug 2017
- Designed and implemented compliance features for financial data systems.
- Conducted root cause analysis and performance tuning.
- Collaborated with business teams for requirements gathering.

KPMG LLP
C#.NET Software Developer | Montvale, NJ | May 2005 – Sep 2010
eWorkPapers: C# Winforms Corporate and Partnership Tax Form preparation tool
- Developed eWorkPapers, a tax form preparation tool using C# Winforms.
- Implemented new data contracts and ETL frameworks for data migration.
- Managed a team of four offshore developers.