Ieng Kit Ho (Nicholas)

EDUCATION

SKILLS

Basic: PHP, Ruby

B.S., Computer Science and Statistics (GPA: 3.2/4)

University of British Columbia, Vancouver, BC

September 2013 — December 2016

Proficient: Python, MATLAB, Java, R, SQL, LaTeX

Official spring graduation in May 2017

Programming languages

PROJECTS PT. I

https://iengkit.github.io +1 (604) 363-5865

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Computer Vision - Gaussian Filters (Python)

Computer Vision - Face Detection in a Scaled Representation (Python)

Statistical Learning Methods - Decision Tree Learning (R)

N-gram modeling with Markov Chains (Python)

Black-Scholes Model with Monte Carlo Simulation (Python)

 Nextbus Android App (Java, Object-oriented Design, XML, APIs) Please visit https://iengkit.github.io for more information

Other (Non-prgramming languages)

Familiar: C, C++, Javascript, Erlang

Familiar: Oracle DB, MongoDB, Apache Hadoop, Regression Testing, Unit Testing, HTML5, JSON, XML, CSS, Node.js, REST, UML

PUBLICATION

[1] Shizgal, B.D., Ho, N. and Yang, X.The computation of radial integrals with nonclassical quadratures Journal of Math. Ch. (2016) - Springer International Publishing Switzerland. (2017) 55: 413. doi:10.1007/s10910-016-0689-5.

WORK EXPERIENCE

NSERC Student Researcher in Density Functional Theory

May 2016 — September 2016

- Tools: MATLAB, Maple, Mathematica.
- · Worked on a pseudospectral algorithm based on non-classical orthogonal polynomials for computing radial integrals in Density Function Theory with additional applications to physics and engineering.
- Demonstrated advanced numerical programming skills.
- Co-authored (second author) a published research paper.
- Supervisor: Prof. Shizgal, B.D. (UBC Institute of Applied Mathematics), Statistical Mechanics Research Group

PROJECTS PT. II

- Probabilistic Algorithms for Rejection Sampling & Likelihood Weighting (R)
 - Horizon Flight App (Java, SQL, JavaScript, oracle DB, JDBC)
 - MCMC Gibbs Sampling Algorithm for Markov Random Fields (R)
 - K-fold cross validation algorithm (R)
 - Universal Puzzle Solver (C++)
 - Reinforcement Learning G.R.I.D (Python)
 - Stochstic Local Search Greedy WalkSAT (R)
- Cultural Compass (Java, Object-oriented Design, JSON, Agile Methodologies, GWT, APIs) Currently working on:
 - Wanderlust Social Networking App
- Ordering System for Coast Capital Savings Industrial Software Engineering Project
 - Fast Parallel Matrix Multiplication Algorithm Scientific Computing Project
 - LSTN-RNN with Python and Tensorflow Deep Learning Project

Please visit https://iengkit.github.io for more information