EVAN KOH CHUAN HOCK

evan@stocks.cafe
http://evankoh.com

EDUCATION

PhD Candidature – Computational Science (CAP: 4.58 out of 5.0)
National University of Singapore, August 2008 – September 2012

Visiting Graduate Student (Developed two software and authored four research articles)
University of Tokyo, June 2009 – March 2011

Bachelor of Computing in Computational Biology (Second Upper Class Honors - CAP: 4.18 out of 5.0)
National University of Singapore, July 2004 – June 2008

Diploma in Multimedia & Infocomm Technology With Merit (Graduated 2nd in Cohort)
Nanyang Polytechnic, July 1999 – June 2002

AWARDS

Recognized for Consistently Performing Beyond Expectation, December 2013 Rakuten
"Delight the Customer" Award, Second Prize

Granted Scholarship for PhD study, August 2008 (approx. SGD 250,000)
National University of Singapore Graduate School for Integrative Sciences and Engineering

Top two students in the Undergraduate Research Opportunity Program, June 2008
Defence Science & Technology Agency Prize

Top 2nd person in graduating cohort, August 2002
IBM Singapore Silver Medal

Most Outstanding Final Year Project in Graduating Cohort, August 2002
IBM Singapore Book Prize

PERSONAL ACHIEVEMENTS

Undergraduate Graduation Representative due to Excellence in both Research & Sports, July 2008
Chosen among 8,733 to meet the President of Singapore and interviewed by a National Newspaper

Ironman Langkawi, February 2007
Completed the extreme triathlon comprising of a 3.8km swim, 180.2km cycle, 42.2km run

2009 World Games Kaohsiung Pre-event, October 2006
Chosen to represent Singapore in the Dragon Boat World Championship Pre-event held in Taiwan

WORK EXPERIENCE

Indeed, Inc., August 2014 – Current
・Senior software engineer and senior data scientist in the world's #1 job site, with >200 million unique visitors monthly in >50 countries
・Build full-stack architecture & data science solutions for Recommendation, Spam Detection, and Jobs Discovery, among others
・Design interview questions and perform both Software Engineering and Data Science interviews with >300 hours of interviewing
・Data science community leader in Japan. Mentors, organizes, and host events, including regular meetings and mentorship programs for APAC

Rakuten Inc., August 2013 – July 2013
・Data Scientist in a company that owns very diverse businesses (such as E-commerce, E-book etc)
・Optimizing Rakuten Ichiba's Ad platform (such as paid search ranking logic, optimal ad pricing)
・Propose and execute customer acquisition and nurturing strategies/algorithms for Kobo businesses

DeNA Co Ltd., October 2012 – August 2013
・Web engineer in an IT company with the main revenue coming from mobile games
・Involved in the Mixi-Mobage project and devised the game popularity ranking algorithm
・Utilized Pig and Hive to implement and validate the ranking algorithm

PART-TIME, INTERNSHIP AND RESEARCH EXPERIENCE

PhD Thesis, August 2008 – September 2012
・Key objective is to understand stochastic biological systems from noisy and high dimensional data
・Devised effective tools and practical algorithms to estimate and analyze biological systems computationally
・Developed algorithms to accurately and efficiently interpret stochastic simulation results in any domain

Four Elements Capital Ltd., March 2012 – May 2012
・Systematic Commodity Hedge Fund - Research Analyst (Intern)
・Gather and analyze data for the Grains industry
・Based on the findings, improve current indicators and develop new indicators

HedgeSPA Pte. Ltd., December 2011 – February 2012
・Risk Analysis Software Development Firm - Software Developer (Part-time)
・Responsibilities mainly involve back-end performance tuning and testing (in C)
・Managed to reduce performance time of numerous functions by more than 50%

	Google Summer of Code 2011, April 2011 – August 2011 ・Chosen from thousands globally to be funded by Google to participate in an open source project, BioJava ・Long distance supervision by mentors from UK and US whom I have never met prior to the project ・Underwent the full cycle of software development, from planning to testing and deployment
PRESENTATION EXPERIENCE	**Represented Indeed as a Speaker in Public Events** ・Presented how machine learning works in Indeed at several events in APAC ・Presented Indeed's working culture and approach to problems at university recruitment talks **Third Universitas 21 Undergraduate Research Conference, October 2007** ・One of the three representatives selected from my university to present my research in Canada to an international audience from widely varying academic backgrounds
SCIENTIFIC SOFTWARE	**Lead Engineer**
	Biological Sequence Analysis – Sirius PSB A software to enable biologists to carry out predictive modeling on biological data **Biological Pathway Model Checker – Mirach** Efficiently and accurately validate behaviors/properties of computational biological models **Parameter Estimation of Computational Biological Models – DA1.0** Parameter estimation under real-life limitations
	Significant Contributor
	Framework for Processing and Analyzing Biological Data – BioJava To facilitate rapid application development for bioinformatics
RESEARCH PUBLICATIONS	**Predictive Modeling**
	Experimental validation of computational predictions made using software developed by me PNAS, 109(39), 15781-6, 2012 **Overcome a persistent problem in microarray data called batch-effect using a creative approach** BMC Systems Biology, 6(Suppl 2):S3, 2012 **Proposed a theoretical way to determine the optimal number of features for prediction models** Electronics Letters, 47(8), 480-2, 2011 **Built a prediction system to accurately predict the polyadenylation site of Arabidopsis** Genome Informatics, 19, 73-82, 2007
	Monte Carlo Methods
	Sequential hypothesis algorithms that are efficient and accurate in any situation BMC Bioinformatics, 13(Suppl 17):S15, 2012 **Utilized model checking to perform parameter estimation in the absence of time-series data** Molecular Biosystems, 7(5), 1576-92, 2011 **Developed an efficient and accurate model checking framework for Monte Carlo simulation results** Bioinformatics, 27(5), 734-5, 2011 **Sequential Monte Carlo algorithm for parameter estimation under real-life limitations** Bioinformatics, 26(14), 1794-6, 2010
	Software
	An open source Java framework for analyzing biological data Bioinformatics, 28(20), 2693-5, 2012 **Developed a software that can easily generate predictive models on biological sequence data** Journal of Bioinformatics and Computational Biology, 7(6), 973-90, 2009 **A computational analysis of the human promoter regions** In Silico Biology, 4(2), 109-25, 2004
WEBSITE (HOBBY)	**StocksCafe – https://stocks.cafe** An intelligent portfolio management website to help retail investors manage and make better investment decisions
LANGUAGE SKILLS	**English** - Spoken, written and reading (Native) **Mandarin** - Spoken, written and reading (Business) **Japanese** - Spoken, written and reading (Conversational)