curriculum vitæ of

Haider Riaz Khan

Physicist · Philosopher

haiderriazkhan.com haiderriazkhan@gmail.com
haider-khan-57593aba haiderriazkhan

Education

Sep 2017 – Aug 2018 **M.A.** in Philosophy — University of Waterloo

Thesis: *The Phenomenological Origins of Property* (Advised by John Turri)
Areas of Specialization: Foundations of Quantum Theory, Self-Knowledge, and Ownership

Sep 2010 – Apr 2015 **B.Sc.** in Physics and Computer Science — McGill University

Physics Subjects: Classical Mechanics, Thermal Physics, Quantum Mechanics, and Electromagnetism
CS Topics: Object-Oriented Programming, Dynamic Programming, Functional Programming, Data Structures, Graph Algorithms, Greedy Algorithms, Computational Complexity, and Linear Programming

Publications

Conference and Journal Publications

1. Nan Li, Jeff Lei, **Haider Riaz Khan**, Jingshu Liu, Yun Guo. Applying Combinatorial Test Data Generation to Big Data Applications. *ASE 2016: Proceedings of the 31st IEEE/ACM International Conference on Automated Software Engineering*, Pages 637-647, Singapore, August 2016.

2. **Haider R. Khan**, John Turri, Ori Friedman. Phenomenological Origins of Psychological Ownership. Manuscript submitted for publication.

Popular Publications

3. **Haider Riaz Khan**. The Forever War. *Commune*, Issue 5, Winter 2020.

Awards & Honors

2018 Paul Seligman Memorial Scholarship — University of Waterloo, $1200
2015 Dean's Multidisciplinary Undergraduate Research List — McGill
2014 NSERC-CREATE Neuroengineering Award — McGill, $5,625
2010 Alexander Rutherford Scholarship — Western Canada High School, $2,500

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C, Bash, MATLAB
Data Management: Gremlin, SQL, MySQL, Amazon Neptune
Development & Automation: Jenkins, Maven, Docker, Kubernetes
Other: Git, SSH, GCC, javac, Latex

Work

August 2019 - Pres **Software Engineer** — Lifion by ADP (NYC, USA)

Building and improving Lifion's graph database infrastructure. Writing optimized graph database traversals.

Jan 2016 - Feb 2017 **Software Engineer** — Medidata Solutions (NYC, USA)

Designed and developed a Java based automated framework for ETL applications; contributed to the development of an innovative test data generator called BIT-TAG.

May 2014 - April 2015 **NSERC Neuroengineering Fellow** — Ruthazer Lab, Montreal Neurological Institute

Built CANDLE-J; a 3-D image denoising software designed as an ImageJ plugin. CANDLE-J is very adept at processing deep in vivo 3D multiphoton microscopy images where the signal to noise ratio is low (SNR).