Wah Loon Keng

github.com/kengz | medium.com/@kengz kengzwl@gmail.com | (484) 542 3520 | Brooklyn, NY

EDUCATION

LAFAYETTE COLLEGE

BS IN MATHEMATICS MINOR IN PHYSICS Dec 2015 | Easton, PA Cum. GPA: 3.83 / 4.0

LINKS

Github: kengz

LinkedIn: theoriesinpractice Google Scholar: Wah Loon Keng

COURSEWORK

UNDERGRADUATE

Artificial Intelligence Senior Project: Machine Learning Theory of Computation Software Engineering Advanced Algorithms

Adv. Multivariable Calculus Partial Differential Equations Vector Spaces Abstract Algebra Topology Real Analysis Fixed & Mixed Effect Models Probability

Advanced Quantum Theory Advanced Classical Mechanics Advanced Physics Lab Electromagnetic Fields Oscillatory & Wave Phenomena

SKILLS

PROGRAMMING

Proficient:

Python • Node.js • Ruby

Basic: Java • C++ • SQL • Neo4J

R • Mathematica • HTML • CSS/Sass

LANGUAGE

Fluent:

English • Mandarin • Malay Cantonese • Hokkien

EXPERIENCE

ELIGIBLE INC | SOFTWARE ENGINEER

March 2016 - present | Brooklyn, NY

- Started and built the company's data platform and pipeline automation.
- Created products with machine learning and search algorithms.

SINGAPORE-ETH SMART CITIES LAB | SOFTWARE ENGINEER

August 2015 - September 2015 | Singapore

• Traffic network optimization Java app for urban planning using graph theory.

FULCRUMTECH, LLC | SOFTWARE ENGINEER (PART TIME)

Oct 2014 - July 2015 | Easton, PA

• Data ETL and HTML/CSS templating for marketing email automation.

RESEARCH

LAFAYETTE COLLEGE | EXCEL UNDERGRADUATE RESEARCHER

Summer 2015 | Easton, PA

Vertex Cover - studied its NP-hard complexity using Measure and Conquer. Under **Prof Ge Xia**.

Summer 2013 | Easton, PA

Yao Graphs - proved the existence of shortest paths for Y-5, and its inexistence in YY-5. Published in SOCG'14. Under **Prof Ge Xia**.

PERIMETER INSTITUTE | STUDENT RESEARCHER

Summer 2014 | Waterloo, Canada

Quantum Foundations - explored quantum paradoxes in the C3 causal structure using quantum computation and information. Under **Matthew Pusey** and **Tobias Fritz**.

PROJECTS

SLM-Lab A framework for Deep RL using Unity, OpenAl Gym, PyTorch, Tensorflow.

OpenAl Lab An experimentation framework for Deep Reinforcement Learning.

AIVA General-purpose virtual assistant for developers.

spacy-nlp The official Node.js client for spaCy NLP.

dokkerJS Dokker.js creates professional Javascript code documentations.

PUBLICATIONS & TALKS

- [1] Barba et.al. New and Improved Spanning Ratios for Yao Graphs. SOCG'14, in press.
- [2] Medium blog on deep reinforcement learning: https://medium.com/@kengz
- [3] Tutorials on deep RL and OpenAl Lab. latest link: Dec 2017.

AWARDS

2014 Lafayette College Benjamin F. Barge Mathematical Prize

2013-14 2nd, 3rd, Lafayette College Barge Math Competitions

2012 2nd, LVAIC Regional College Math Competition

2010 Gold, Top 5 Team, Malaysian National Physics Competition

2009 Gold, ICAS International Math Competition