Mohammad Matin Najafi

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EDUCATION

The University of Hong Kong

Hong Kong

Expected September 2024

Ph.D. of Computer Science

Sharif University of Technology

Tehran, IR

Bachelor of Science in Computer Science/Engineering; GPA: 19/20

2016-2020

Relevant Coursework: Advanced Machine Learning, Advanced Database Management Systems, Applied Artificial Intelligence, Data Mining, Introduction to Data Science

Allameh Helli High School (National Organization for Development of Exceptional Talents)

Tehran, IR

High School Diploma in Mathematics & Physics Discipline; GPA: 19.54/20.0

2012 - 2016

SKILLS

• Languages: Python, C++, SQL, Java, JavaScript, Matlab, Verilog • Tools: TensorFlow, PyTorch, Scikit-Learn, Numpy, Pandas, Jupyter DevOps: GitHub, CI/CD, Docker, Kubernetes, Ansible, Jenkins

CAD: ModelSim, Quartus II, Proteus

• Databases: MySQL, Mongo, Redis, Postgres

RESEARCH INTERESTS

Data Mining

Graph Mining

Complex Networks

Databases

Knowledge Graphs

- o Artificial Intelligence & Deep Learning
- Databases
- Knowledge Graphs
- o Artificial Intelligence & Deep Learning

RESEARCH INTERNSHIPS

Network Motif Discovery

University of Hong Kong, HK

Jul 2019 - Sep 2019

- Summer Research Intern, Dr.Reynold C.K. Cheng • Algorithm Design: Propose and implementation of algorithms to beat the state-of-the-art solutions.
 - o Apply "Motif Discovery" to HINs: Show how motifs can be efficiently discovered on Heterogeneous Information Networks.

Code Layout Optimization

Institute For Research In Fundamental Sciences, Iran

Summer Research Intern, Dr.Pejman Lotfi-Kamran, Dr. Ali Ansari

Feb 2018 - Apr 2018

- Background Analysis: A survey on the existing solutions in the literature.
- Implementation: Implementing & Comparing the state-of-the-art solutions to our proposed solution.

WORK EXPERIENCE

Cafe Bazaar(Android Market with 40M users)

Tehran, IR

Software Engineer Intern (Back-end Developer)

Software Engineer Intern(Android Developer)

June 2018 - Aug 2018

- Mini-inlines: A platform to respond directly to informative search queries inside the android market.
- Crawlport: A crawler to collect and process live data from sport sites.

Andisheh Group

Tehran, IR

• Android Development: Implemented Business Intelligence application.

May 2017 - Aug 2017

PUBLICATIONS

- Two **upcoming** papers on Network Motif Discovery.
- Xiaodong Li, Reynold Cheng, Matin Najafi, Kevin Chang, Xiaolin Han, and Hongtai Cao. M-cypher: A gql framework supporting motifs. In Proceedings of the 29th ACM International Conference on Information & amp; Knowledge Management, CIKM '20, New York, NY, USA, 2020. Association for Computing Machinery

HONORS & AWARDS

- Lee Shau Kee Postgraduate Fellowship. The University of Hong kong 2020
- Belt & Road Scholarship. The University of Hong kong 2020
- HKU Postgraduate Scholarship (PGS). The University of Hong kong 2020
- Academic Excellence Award (rank 1 in class). Sharif University of Technology 2018 & 2019
- MakeAthon(Make Marathon) Best ideas (3rd runner-up)
- Academic Excellence Award (rank 3 in class). Sharif University of Technology 2017
- 2nd runner-up at Tehran open chess championship
- Champion at Hong Kong Inter-School chess championship

ACADEMIC SERVICE

Reviewer / PC Member

Conferences and Journals

- o SIGMOD 2020: The ACM Special Interest Group on Management of Data.
- o ACM SIGKDD 2021: Conference on Knowledge Discovery and Data Mining.
- o TKDE 2021: IEEE Transactions on Knowledge and Data Engineering

TEACHING

Tutor & Teaching Assistant Course: Age of Big Data	The University of Hong Kong Prof. Reynold Cheng
Head Teaching Assistant Course: Computer Structure & Language	Sharif University of Technology Dr. Hamed Farbeh
Tutor & Teaching Assistant Course: Software Development and Design(Agile)	Sharif University of Technology Dr. Masoumeh Taromirad
Tutor & Teaching Assistant Course: Advanced Programming	Sharif University of Technology Dr. Isazadeh
Head Teaching Assistant Course: Computer Architecture	Sharif University of Technology Dr. Hamed Farbeh
Language Skills	

• Persian : Native

• English: Fluent (TOEFL 109)

• Arabic: Familiar

SPECIAL COURSES

- Introduction to Data Science: University of Michigan(Coursera)
- Applied Machine Learning: University of Michigan(Coursera)
- Deep Learning Specialization: DeepLearning.ai (Coursera)

REFERENCES

Available upon request.