

# Mohammad Matin Najafi

Department of Computer Science, The University of Hong Kong

[matin@connect.hku.hk](mailto:matin@connect.hku.hk) | +852 55945774

## EDUCATION

---

### The University of Hong Kong

*Ph.D. of Computer Science*

Hong Kong

*Expected September 2024*

### Sharif University of Technology

*Bachelor of Science in Computer Science/Engineering; GPA: 19.01/20*

Tehran, IR

*2016-2020*

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

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

Tehran, IR

*2012 - 2016*

## RESEARCH INTERESTS

---

- Knowledge Graphs
- Complex Networks
- Game Theory
- Algorithms
- Web3
- Algorithmic Trading

## SKILLS

---

- **Languages:** Python, C++, SQL, Java, JavaScript, Matlab
- **Tools:** TensorFlow, PyTorch, Scikit-Learn, Numpy, Pandas, Jupyter
- **Databases:** MySQL, Mongo, Redis, Postgres
- **DevOps:** GitHub, CI/CD, Docker, Kubernetes, Ansible, Jenkins
- **Web3:** Brownie, Solidity, dApp Dev

## RESEARCH INTERNSHIPS

---

### Network Motif Discovery

*Summer Research Intern, Dr.Reynold C.K. Cheng*

University of Hong Kong, HK

*Jul 2019 - Sep 2019*

- **Algorithm Design:** Propose and implementation of algorithms to outperform the state-of-the-art solutions.
- **Apply "Motif Discovery" to HINs:** Examine the possibility of Motif Discovery on Heterogeneous Information Networks.

### Code Layout Optimization

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

Institute For Research In Fundamental Sciences, Iran

*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)

*Software Engineer Intern (Back-end Developer)*

Tehran, IR

*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

*Software Engineer Intern(Android Developer)*

Tehran, IR

*May 2017 - Aug 2017*

- **Android Development:** Implemented Business Intelligence application.

## HONORS & AWARDS

---

- Lee Chau Kee Postgraduate Fellowship (UPF). 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
- MakeAthon(Make Marathon) - Best ideas (3rd runner-up)
- 2nd runner-up at Tehran open chess championship
- Champion at Hong Kong Inter-School chess championship

## ACADEMIC SERVICE

---

### External Reviewer

#### *Conferences and Journals*

- **SIGMOD 2020-2022**: The ACM Special Interest Group on Management of Data
- **ACM SIGKDD 2021**: Conference on Knowledge Discovery and Data Mining
- **TKDE 2021**: IEEE Transactions on Knowledge and Data Engineering
- **VLDB 2021-2023**: International Conference on Very Large Data Bases

## TEACHING

---

### **Tutor & Teaching Assistant**

*Course: Age of Big Data (2020-2022)*

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.**