




Tahsin Khan

An accomplished and dependable Doctoral Researcher and Computer Science Teaching Assistant looking to join the technology industry as a Software Engineer. As an analytical scientific investigator, with a track record of efficient project management and exposure to various technology stacks and research methodologies, I am looking to utilize my skillsets to deliver effective technical solutions through collaborating with an active and dynamic team.

CONTACT

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EDUCATION

PhD Oct 2020 – Present

Topic: Mathematical Optimization and Agent based Modelling
Engineering Research
University of Nottingham

AFHEA Jan 2022 – Present

Associate Fellowship of Higher Education Academy (UK)
Nottingham Recognition Scheme
University of Nottingham

MRes Oct 2019 – Sept 2020

Topic: Geospatial Data Science
Engineering Research
University of Nottingham

MSc Oct 2018 – Sept 2019

Topic: Natural Language Processing
Computer Science
University of Nottingham

BSc May 2017

Electrical Engineering
Iowa State University (Ames, Iowa US)

SKILLS

| | |
|-----------------------|---|
| Programming Languages | Python Java PostgreSQL R Bash Netlogo |
| Web Tech | HTML CSS Django |
| Tools | Git AWS (EC2) |
| Research | Mathematical Optimization Machine Learning RL Graph Theory Game Theory Stochastic Modelling Algorithms and Data Structures Research Methods |

WORK EXPERIENCE

Teaching Assistant

School of Computer Science, University of Nottingham | Feb 2021 - Present

- Deliver tutorial lectures and lab sessions for first, second and Masters year modules in **Java programming, Mathematics for Computer Science, Languages and Computations, Data Modelling and Analysis, Robotics, Fuzzy Logic and Systems**
- Mentor a group of five undergraduate students in Algorithms and Data Structures to compete in the Association of Computing Machinery (ACM) programming contests
- Contribute to marking exams and courseworks

Founder and Curriculum Lead

Hessix LLC | October 2017 - Present

- Founder of an educational initiative to train local learners in technical subjects to support the growing technology industry in Bangladesh
- Develop curriculum in Data Science, Programming (Data Structures and Algorithms) and Web Development
- Manage finance and partnerships with industry and local NGOs

Research Assistant

Horizon Research Institute, University of Nottingham | March 2019 – Sept 2019

- Conducted research on graph-based machine learning models for sentiment analysis
- Researched on automated techniques for identification of spam and dishonesty in human annotation of lexical dataset
- Trained deep learning based natural language models on AWS (EC2)

Facilities Management Administrator

Computer Science Department, Iowa State University | June 2017 - Sept 2017

- Worked with technical, administrative and academic staff to manage day to day operations of departmental facilities that served more than 800 students on a daily basis
- Scheduled and kept records of maintenance work and usage of facilities
- Maintain financial records for the department and vendors
- Troubleshoot lab and lecture hall devices
- Supervised a group of six lab monitors

Electrical Engineering Intern – Hardware Testing

Ag Leader Technology, Ames, Iowa, US | May 2015 - August 2015

- Programmed 32 bit microcontroller for automating hardware testing of circuits on printed circuit boards

OUTREACH AND LEADERSHIP ACTIVITIES

- Reading Group Convenor, Robotics Lab, School of Computer Science, UoN
- Resident Tutor at Lenton and Wortley Hall (November 2018 – August 2021)