Misrab M. Faizullah-Khan

misrab.me

EDUCATION

2008-2013 STANFORD UNIVERSITY

M.S. Management Science & Engineering: Artificial Intelligence

B.A. Economics, Minor Computer Science

2004-2006 UNITED WORLD COLLEGE OF SOUTH EAST ASIA

International Baccalaureate (IB) Diploma

- o Total score: 44/45
- Extra subject: Further Mathematics
- National Youth Achievement Award, Economist of the Year, Journalist of the Year

COURSEWORK & LEARNING

Technical Machine Learning, Databases, Convex Optimisation, Computer Networking

Operations Technology Strategy, Accounting, Operations Research

Independent Topology (Essential Topology), Quantum Computation (Vazirani, UC Berke-

ley), Statistical Learning Theory (Hastie, Tibshirani, Stanford), Cell Biology and Genetics (including time in Imperial College's Postgraduate course)

Projects Neural network that identified spoken languages; Youtube channel ranking

system; Online auction mechanism design and more

SKILLS

Programming Proficient in C, C++, Java, Go, Python, Javascript, Ruby

Mobile/Web iOS, HTML, CSS, Ruby on Rails, Node, Angular, Backbone, d3

Databases Hands-on experience with SQL, MongoDB, Hadoop, Hive, TitanDB

Languages Written and spoken English, French (native), Mandarin, Urdu, Hindi, Italian

(advanced), Turkish, Portuguese, Arabic (intermediate)

Interests Classical and jazz guitar, piano, long-distance running, garage engineering,

modern history

WORK

- May **CLIENT & BIG DATA**, Senior Optimisation Specialist & Data Scientist, '15-present TripAdvisor, Singapore
 - Highly technical client-facing role. Work in small distributed team on some of the toughest data and auction related challenges at TripAdvisor
 - Optimise clients? bidding strategies on the advertising auction. Design, implement and maintain scalable big data infrastructure for high internal and external impact
- Jan-Apr '16 **DATA SCIENCE TEACHING**, *Data Science Instructor*, GENERAL ASSEMBLY, Singapore
 - Taught a part-time data science course to about a dozen adult professionals alongside a Teaching Assistant
 - Official Net Promoter Score of 90 (Beyond "Excellent")
 - Topics included:K-Nearest Neighbours, Naïve Bayes, Regularisation, Logistic Regression, K-Means Clustering, Ensemble Techniques, Decision Trees and Random Forests, SVMs, Dimensionality Reduction, Recommendation Systems, Database Technologies, Network Analysis
 - April '15 PROJECT CONTRACT, Data Engineer, NUGIT, Singapore
 - Built an NLP agent on Slack that could respond to plain-English user queries, interactively. "Nugbot" would parse natural language, issue complex asynchronous API requests, and respond appropriately
- Jun-Sep '14 BIG DATA, Data Scientist, VISA LABS, Singapore
 - Helped maintain a pipeline of prototypes leveraging emerging technologies.
 Hands-on experience with major big data tools ranging from Spark to d3.js visualisation
 - Worked in a team of almost exclusively PhDs, from whom I learnt tremendous amounts
 - Planned and ran daily analytics on terabytes of data
- Sep-Mar '14 CONVEX OPTIMISATION, Programmer, STANFORD ENGINEERING
 - Had the honour of working under Prof. Stephen Boyd, contributing to the development of a python version of the 'cvx' convex optimisation library
- Aug-Nov '13 ENTREPRENEURSHIP, Co-Creator, NEUROSPLASH
 - Hand-wrote 30k+ lines of Node.js running on top of MongoDB and SQL for an online educational platform. Worked in amazing team of four
- Sep-Dec '12 **TEACHING**, Teaching Assistant, STANFORD AARC CENTRE
 - Tutored student athletes on intermediate game theory and microeconomics
- Jul-Aug '12 **FINANCIAL MODELLING**, *Data Analyst*, Gov. of Singapore Investment Corp (GIC)
 - Constructed software financial models for the Australian real-estate market

- Jul-Aug '10 MANAGEMENT, Apprentice, SHAH AND TANAH GROUP, Mumbai India
 - Rotated through Sales, Accounting and Operations departments of a Mumbaibased industrial infrastructure provider
 - \circ Produced capstone project with recommendation for improving the effectiveness of each department. Enhanced cash flow by 16%
- 2006–2008 MILITARY SERVICE, Frontline Officer, SINGAPORE POLICE FORCE
 - Operated in high-stress environments including domestic violence, disputes and emergency incidents
 - Presented the Outstanding Contribution Award for excellent service
- Jul-Aug '06 ACCOUNTING, Accounts Auditor, ROBERT YAM AND CO, Singapore
 - Audited clients' accounts by verifying reported figures against financial statements. Gained familiarity with technical commercial documents
- Jun-Jul '06 PRIVATE EQUITY, Research Assistant, PORTELET ASIA, Singapore
 - Independently produced a research paper on the water purification industry in Asia

LEADERSHIP ROLES & ACTIVITIES

- 2009–2011 **SOCIAL ENTREPRENEURSHIP**, Founder, SC-ASIAN FORUM FOR EDUCATION
 - Spearheaded a student-run organisation that promotes learning about education policy. 20 active members plus quarterly conferences of more than 100 people
- 2008–2011 TRADING, Director, BLYTH FUND
 - Lead a US\$140k+ fund at Stanford University. Routinely assessed investment opportunities and executed trades
- 2006–2008 COMPETITIVE SPORT, National Player, SINGAPORE POLO TEAM
 - Our team achieved the Silver Medal at the 24th South East Asian (SEA) Games
- 2004–2006 **JOURNALISM**, Editor in Chief, MONEY MATTERS MAGAZINE
 - Produced first profitable issue of school Economics magazine ever. Circulation of 2000+ individuals
- 2004–2006 **VOLUNTEER WORK**, Chairman, JAKARTA STREET KIDS
 - \circ Managed and organised 50+ volunteers in raising awareness and funds for two schools and one orphanage in Jakarta
 - Identified transparency as key barrier to donations, addressed this issue through detailing money paths