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, Cryptocurrency & Blockchain

Operations Technology Strategy, Accounting, Operations Research

Independent Topology (Essential Topology), Quantum Computation (Vazirani, UC Berkeley), 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, Java, Golang, Python, Javascript

Mobile/Web HTML, CSS, Rails, Node, Angular, d3, Meteor, React

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

Languages Written and spoken English, French (native), Mandarin, Urdu, Hindi, Italian (advanced), Turkish, Portuguese (intermediate)

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

modern history

WORK

May **BLOCKCHAIN**, STEALTH PROJECT, Singapore

'16-present • Developing the future through Blockchain

May '15-May CLIENT & BIG DATA, Senior Optimisation Specialist & Data Scientist, '16 TripAdvisor, Singapore

- Key role in designing and developing an algorithm from scratch that made more than 5 million auction bids a day, accounting for approx. US\$50 million of revenue a year
- Highly technical client-facing role. Worked in small distributed team on some of the toughest data and auction related challenges at TripAdvisor
- o Optimised clients' bidding strategies on the advertising auction. Designed, implemented and maintained scalable big data infrastructure

Jan-Apr '16 DATA SCIENCE TEACHING, Data Science Instructor, GENERAL AS-SEMBLY, 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 IN-VESTMENT 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