

Hasnain Lakhani

Developer, Entrepreneur

WORK EXPERIENCE

Facebook

Software Engineer

OCTOBER 2014 – PRESENT

Working on the Ads and Pages Insights Backend team to deliver high quality real-time insights to Advertisers on Facebook. Worked on large scale data migrations from an old backend to a new one. Focusing on scaling challenges and improving the usability of the platform.

SRI International

Software Engineer

OCTOBER 2013 – OCTOBER 2014

Designing and implementing usable, efficient security protocols for next-generation content-centric mobile networks. Development, testing, evaluation, and simulation of code across physical and virtual devices. Integration testing of code from various teams. Creating scriptable analytics frameworks and for testing and experiment analysis. Prototyping LLVM based application specialization.

Anahata Solutions

CTO

JUNE 2010 – MAY 2013

Developing a line of applications for the Samsung Bada platform. Creating a distributed analytics solution. Writing web service back-ends for Android applications. Making strategic business decisions. Managing a team of developers.

SRI International

International Fellow

AUGUST 2012 – JANUARY 2013

Studying decentralized capability-based authorization protocols for content-based networks. Designing and prototyping key management and distribution protocols atop the Hagle open source framework.

TECHNICAL

Languages	PYTHON, C, C++, C#, JAVA, HASKELL, HTML, JAVASCRIPT
Platforms	WEB, LINUX, MAC, WINDOWS
Emulation	CORE, EMANE
Libraries	MATPLOTLIB, SQLALCHEMY
Databases	MYSQL, REDIS, SQLITE
Misc	FLASK, L ^A T _E X, GIT
Interests	ALGORITHMS, DISCRETE MATHEMATICS, FUNCTIONAL PROGRAMMING, COMPILERS, DATA PROVENANCE, ARTIFICIAL INTELLIGENCE, DISTRIBUTED SYSTEMS, MACHINE LEARNING

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📁	http://github.com/mhlakhani

EDUCATION

2013 **Bachelor of Science**

COMPUTER SCIENCE

3.91 CGPA, 4.00 SCGPA, **Gold Medalist**

Labore University of Management Sciences

2009 **A Levels**

MATH, PHYSICS, CHEMISTRY, COMPUTING

PISES, Riyadh, Saudi Arabia

OPEN SOURCE

OCCAM	LLVM Based Application Specialization
ENCODERS	Content Based Mobile Edge Networking
BLOCKY	Random Linear Network Coding in C++
HALWA	Static site generator written in Python
QURANAPP	Creates collections of various Quranic Ayats
HLISP	Lisp written in Haskell

PUBLICATIONS

2015	DECENTRALIZED AUTHORIZATION AND PRIVACY ENHANCED ROUTING FOR ICNs
ACSAC	M Raykova, H Lakhani , H Kazmi, A Gehani
2015	EVALUATION OF A DELAY-TOLERANT ICN ARCHITECTURE
ICUFN	H Lakhani , T McCarthy, M Kim, D Wilkins, S Wood Excellent Paper Award
2015	A CLASSIFICATION BASED FRAMEWORK TO PREDICT VIRAL THREADS
PACIS	H Sharif, S Ismail, S Farooqi, MT Khan, MA Gulzar H Lakhani , F Zaffar, A Abbasi
2014	COVERT CHANNELS IN ONLINE ROGUE-LIKE GAMES
ICC	H Lakhani , F Zaffar
2013	OPTIMIZED ROLLBACK AND RE-COMPUTATION
HICSS	H Lakhani , R Tahir, A Aqil, F Zaffar, D Tariq, A Gehani