Javed Maqbool Shah

Chicago IL,

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Education

2023	**Machine Learning Specialization**, Stanford University
2022	**Decentralized Finance** (audit), University of California, Berkeley
	Solidity for smart contracts
2014	**MBA**, Haas School of Business, University of California, Berkeley
	GMAT: 740, Emphasis in Game Theory & Strategy
	Capstone - Designed eBay-like network game to increase sales throughput at Hewlett Packard
2012	**Financial Modeling**, Training The Street (workshop), University of California, Berkeley
2001	**BS Computer Engineering**, University of Pune
	Emphasis in Cryptography & Artificial Intelligence (Prolog, Lisp, Expert Systems)
	Final Project - Medical Diagnosis Expert System (Medi-Liza) in Common Lisp

Certifications and Workshops

2022	Crypto Economics Security Conference (CESC), University of California, Berkeley
2022	Zero Knowledge Proof (ZKP) Workshop, University of California, Berkeley
2017	Certified Information Security Manager Exam, ISACA
2016	Project Management Professional (PMP), Project Management Institute
2009	Certified Information Systems Security Professional(CISSP), (ISC)²
2008	Zachman Certified Enterprise Architect, Zachman Institute, Washington DC

Affiliations and Volunteering

2017	ISACA, Member of the Sacramento Chapter
2016-	Project Management Institute, Lifetime Member
2015-	Association for Computing Machinery (ACM), Member
2014	Haas Consulting Club, University of California, Berkeley
2013	Asian Business Club, Leadership Team, University of California, Berkeley
2012	Gallup Strengths-based Leadership Workshop, University of California, Berkeley
2012	Court Appointed Special Advocate (CASA) for Children, Contra Costa County, California
2006	Down Syndrome Connection of the Bay Area, Sponsoring Volunteer, Walnut Creek

Research and Teaching Interests

Intersection of user-facing cybersecurity and machine learning, decentralized identity and distributed ledgers. Humanitarian applications of artificial intelligence for children from conflict zones.

Technical Skills

Deployment Architecture
- Stateless token based architecture for authentication with OAuth2 RFC6749
- Global and fractional replication of data in the LDAPv2 specification
- Just In Time migration of on-premise software to cloud with shadow sessions

Data Science and Software Engineering
- Agile SCRUM expert, JIRA & GitOps workflows
- Groovy, Advanced Java, C/C++ and C#
- TensorFlow, Keras, Pandas, NumPy, Jupyter Notebooks, Python, STATA and R

Identity Management & Governance
- SSO, LDAP, Active Directory, Azure, Unix/Linux, SAML, OAuth 2.0, OpenID Connect

DevOps & Cloud
- Hands-on experience with Docker and Kubernetes in GKE and AKS

Consulting and Advisory
- UC Berkeley Haas School of Business internship program
  - Hewlett Packard Enterprise: Designed eBay-like network game to increase sales throughput

Awards and Recognition

2014   First Place in the UC Berkeley Haas Innovation Gamification contest at Hewlett Packard Enterprise
2006   Rainmaker of the year, iRise (Kaiser Permanente)
2005   Rainmaker of the year, iRise (Kaiser Permanente)
1997   Qualifier, Regional Math Olympiad, Pune, India
1996   Qualifier, Regional Math Olympiad, Pune, India
1995   Qualifier, Regional Math Olympiad, Pune, India

Manuscripts in Publication / Independent Research

"Religious Hegemony and Political Regime: Examining the Inverted U Relationship with Conflict."
- Journal Article with Shah, Tamanna M.
- Submission for American Sociological Review (ASR), 2024

How are religion, regime type, and conflict related across countries and time?

"AI Intersections: Amplifying Children and Youth Voices in Conflict Zones"
- Book Chapter accepted for *Children and Youth as 'Sites of Resistance' in Armed Conflict*, Volume I (Sponsored by American Sociological Association (ASA) Section on Children and Youth, Emerald Publishers), May 2024

I focus on how Artificial Intelligence can be applied to amplify the voices and experiences of children and youth in conflict zones, shedding light on their diverse forms of resistance, agency, and resilience.

"AI-Enhanced Resilience: Empowering Youth Voices in Conflict Zones"
- Book Chapter accepted for *Children and Youth as 'Sites of Resistance' in Armed Conflict*, Volume II (Sponsored by American Sociological Association (ASA) Section on Children and Youth, Emerald Publishers), May 2024

This chapter explores Generative AI and Natural Language Processing (NLP) strategies that can help children and youth from armed conflict zones to manage their emotional and psychological responses.

Working Papers

"*Deescalating Psychological Distress and Behavior Challenges in Children and Young Adults with IDD*"
- Submitted abstract to The Maria Grzegorzewska University, Szczęśliwickiej, Poland, Warsaw (March 21-22, 2024)
- Conference submission with Shah, Tamanna M.

The paper explores combining different deescalation strategies to provide holistic support, fostering a more inclusive and supportive environment for young adults with IDD, emphasizing their social inclusion and overall development.

"*Delegated and Chained Authorization with OAuth2 and User Managed Access*"
- Adapted from proprietary technical note, 2018
- Submitted to Security of Information Networks SIN18, rejected with review comments

The paper explores "decentralized permissions" as a way to avoid caching pre-baked permission sets at the Authorization Server (AS). Ideas proposed include caching nested permissions to promote faster authorization decision times.

Speaker

2023   "Secure Passwordless- Yes you can!", Executive Speaking Session, Gartner IAM, **Dallas**, TX
2022   "Decentralized Identity and Security of User data", TechVision Experts Panel, **Seattle**
2021   "Identity Based Authentication for Third-Party Access", Saviynt Converge Keynote, **San Diego**
2019   "Securing Authorization microservices", Gartner Identity Talk, **Las Vegas**
2018   "Token Exchange Microservices", ForgeRock Identity Summit, **London**, UK
2017   "Declarative authorization policies in Kubernetes clusters with Open Policy Agent", **Berlin**, Germany
2017   "Introducing Identity Microservices", Ping Identity Summit, **Singapore**
2016   "Identity Impersonation, Risks and Mitigation", Identity Risk Management workshop, **Austin**, TX
2013   Enterprise Risk Assessment & Enablement, 3-day workshop, BCBS NC, **Charlotte**, NC

Public Media

2023   "Rainbow Table Attacks", LinkedIn
2023   "Adaptive Authentication", LinkedIn
2022   "Zero Trust: Best practices for implementation", LinkedIn
2022   "Behavioral biometrics authentication", LinkedIn
2022   "Synthetic identity and fraud", LinkedIn
2022   "The Identity Developer platform offered on a cloud-hosted Sandbox", 1Kosmos
2019   "Identity Workflow using Authentication Trees and Google Cloud Functions with Zeebe Cloud", ForgeRock
2018   "ForgeRock Identity Microservices with Consul on OpenShift", ForgeRock
2018   "Environment Runtime management identity microservices with Hashicorp Consul", ForgeRock
2018   "Token Exchange and Delegation using Identity Microservices", ForgeRock
2018   "Securing your (micro)services with ForgeRock Identity Microservices", ForgeRock
2016   "Client and server side scripting for authentication", ForgeRock
2016   "WS Federation support with simple modifications to a SAML Engine", ForgeRock
2015   "2FA predictive authentication using Phone-based risk signals", ForgeRock
2015   "Deploying social login risk profiles using social networking risk signals", ForgeRock
2015   "Impersonation techniques for Helpdesk management in modern access management products", ForgeRock
2013   "Strategy for Security: a pure bargaining model", theberkeleymba.org

Work Experience

July 2021 –   *1Kosmos Inc.*
Global Head of Product (SVP), Blockchain based Identity and Access Assurance Platform
Responsible for defining and executing the identity and access management vision and AI/AML roadmap for our blockchain based Know Your Customer (KYC) SaaS platform. Designed and built developer.1kosmos.com.

Jan 2014 – July 2021   *ForgeRock*
Sr. Director of Product, Identity Cloud
Designed and built the global ForgeRock Identity Cloud service on kubernetes in Google Cloud. Led North America pre-sales, responsible for $41M P&L. Established the *https://github.com/forgerock/forgeops* devops project.

Dec 2010 – Dec 2013   *Prolifics Inc.*
Director of Professional Services, Americas
Responsible for a shared $11M P&L with other directors, managed a professional services team of security consultants in the US. Served as lead architect for identity and access management projects.

Aug 2008 – Nov 2010   *University of California, San Francisco*
Program Architect, Identity & Access Management for Campus, InCommon Federation
Designed and operationalized the UCSF myaccess.ucsf.edu portal that serves over 150,000 students and staff.

Aug 2004 – Dec 2008   *Kaiser Permanente (iRise)*

Architect, Identity & Access Management Services

Designed and built healthy.kaiserpermanente.org, a global service serving 500,000 users for Kaiser Permanente.

May 2001 – Aug 2004   *Persistent Systems, Inc.*

Senior Staff Software Engineer, Identity

Senior software developer on the IBM Tivoli Identity platform.