

SALEM ALQAHTANI

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Education

State University of New York(SUNY) at Buffalo

Ph.D. in Computer Science and Engineering

Jan. 2017 – August 2022

Buffalo, NY

University of Connecticut

M.S. in Computer Science and Engineering

Jan. 2014 – May 2015

Storrs, CT

King Khalid University

B.S. in Computer Science

August. 2005 – Jun 2010

Abha, KSA

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Machine Learning
- Systems Programming
- Distributed Systems
- Database Management
- Operating Systems
- Computer Architecture

Experience

University of Utah

Research Intern

May 2024 – September 2024

Salt Lake, Utah

- Planning to develop a data fabric framework that seamlessly collects and integrates data from diverse sources.

SUNY at Buffalo

Postdoctoral Researcher

September 2022 – May 2024

Buffalo, NY

- Led the Juicer project, which involved developing an ordering layer to enhance concurrency control performance in distributed databases. Utilized CockroachDB System as the baseline and integrated this layer as an interceptor within the GRPC layer. This facilitated efficient transaction reordering, resulting in minimized abort rates and improved overall system efficiency.

SUNY at Buffalo

Research Assistant

Jan 2017 – August 2022

Buffalo, NY

- Led a project that designed a new BFT protocol called BunchBFT for better performance in Geo-Distributed settings.
- Led a project that designed a new BFT protocol called BigBFT for high throughput, which resulted in a publication in IEEE-IPCCC '21.
- Led a project that fundamentally studied the bottleneck in Blockchain protocols and designed an implementation framework called PaxiBFT for system evaluation, which resulted in a publication in IEEE-COINS '21.
- Led a project that studied and evaluated the communication topologies in machine learning systems, which resulted in a publication in IEEE-ICCCN '19.
- Collaborated on a project that studied and evaluated machine learning systems, which resulted in a publication in IEEE-ICCCN '17.

King Khalid University

Lecturer

May 2010 – August 2011

Abha, KSA

- Designed and developed course materials, assignments, and assessments for the Data Structures and Algorithms course, aimed at enhancing student learning outcomes.
- Actively participated in departmental meetings, providing insights and contributing to the ongoing curriculum development and improvement initiatives.

Saudi Aramco

Front End Developer Intern

May 2009 – August 2009

Dhahran, KSA

- Contributed to the frontend development of a web application designed to sort and organize data collected from the field.

Technical Skills

Languages: Python, Java, C, C++, Golang, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, AWS

Technologies/Frameworks: Linux, GitHub

Leadership / Extracurricular

Fraternity

President

Spring 2020 – Fall 2020

State University of New York

- Lead and establish a Saudi Club in the Graduate Student Association.