

# Sarim Aleem

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## EDUCATION

### B.S. Computer Science, Minor Arabic

Austin, TX | May 2024

UNIVERSITY OF TEXAS AT AUSTIN

**Coursework:** Data Structures, Algorithms, Computer Architecture, Operating Systems, Distributed Systems, Compilers

## WORK EXPERIENCE

### FUJITSU NETWORK COMMUNICATIONS | SOFTWARE DEVELOPMENT ENGINEER INTERN Dallas TX | Jun 2022

– Aug 2022

- Developed Custom Webclient to store network topology in Configuration Persistent Storage database using Java Spring
- Configured Docker files so microservices can communicate with each other in docker-compose
- Created bash scripts to automate container deployment and testing REST endpoints
- Migrated topological discovery of network elements from direct drivers to a software defined network controller

### BAYLOR COLLEGE OF MEDICINE | RESEARCH ASSISTANT (RA)

Houston, TX | Jan 2021 - August 2021

- Created a Computer Vision Model in C++ to fit Ellipses to pupils of mice, improving speed over deep learning model by 50x
- Programmed a Python library to analyze pupil dilation of mice that was used in the lab
- Coauthored paper submitted to Advances and Perspectives in Auditory Neuroscience
- Manipulated and Analyzed Data with Pandas and Matplotlib

## PROJECTS

### COMMANDLINE BLOG

Typescript, Express, MongoDB

Created A web server where users can upload blog posts in markdown and automatically convert it to HTML.

### DISTRIBUTED KEY-VALUE STORE WITH LOAD BALANCING

Java, Distributed Systems,

Concurrency

A Distributed key-value which replicates data with fault tolerance using Paxos and balances workloads towards different nodes based node traffic.

### MULTIPLAYER GOMOKU WITH AI

Javascript, Express, Web Sockets

Created website where players can play Gomoku with each other with communication through websockets.

Implemented AI using Minimax with Alpha Beta Pruning for single player.

## SKILLS

**Languages:** Java, C, C++, Python, Bash, SQL

**Web Development:** React, JavaScript, TypeScript, HTML/CSS, Express, Node

**Technology:** Git, SQL, Docker,  $\LaTeX$ , MongoDB, Spring

## ACTIVITIES