

# Sarim Aleem

281-904-5071 | [sarimaleem99@gmail.com](mailto:sarimaleem99@gmail.com) | [linkedin.com/in/sarim-aleem](https://www.linkedin.com/in/sarim-aleem) | [github.com/sarimaleem](https://github.com/sarimaleem)

## EDUCATION

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### University of Texas at Austin

*Bachelor of Science in Computer Science, Minor in Arabic*

Austin, TX

Aug. 2020 – Dec 2023

## EXPERIENCE

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### Software Development Intern

*Adobe*

May 2023 – Aug 2023

*San Jose, CA*

- TODO

### Software Development Intern

*Fujitsu Network Communications*

Jun 2022 – Aug 2022

*Dallas, TX*

- Developed web client in Java Spring to migrate network element data to CPS database from MongoDB
- Created CPS database schema to store NETCONF/RESTCONF data in YANG
- Configured network bridge in Docker files to enable cross-communication between 15+ microservices
- Migrated southbound interface from direct drivers to a software defined network controller
- Wrote bash scripts to automate container deployment and test REST endpoints

### Research Intern

*Baylor College of Medicine*

Jan 2021 – Aug 2021

*Houston, TX*

- Built computer vision model in C++ to analyze mice pupil dilation size, 50x faster than deep learning model
- Programmed Tkinter GUI to edit audio files based on signal patterns and spectrogram
- Developed Python library to analyze and visualize pupil dilation of mice using Pandas and Matplotlib

## PROJECTS

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### Ray tracer | *Python, Flask, React, PostgreSQL, Docker*

June 2020 – Present

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

### Simple Paintball | *Spigot API, Java, Maven, TravisCI, Git*

May 2018 – May 2020

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib