

SHAAN KHAN

<https://github.com/ContactShaanKhan>

<https://shaankhan.me>

contactshaankhan@gmail.com

EDUCATION

- **Stony Brook University**, Stony Brook, New York — BS Computer Science—May 2022
 - GPA: 3.93/4.0
 - Dean's List: All Semesters

RELEVANT COURSEWORK

- **University Classes:** Cloud Computing, Operating Systems, Security Fundamentals, Computer Networks, Software Development, Data Structures, Systems Fundamentals, and more.

EXPERIENCE

- **Information Technology Analyst**, Société Générale — Summer 2021
Working closely with the application support team that manages and maintains the trading software that traders use daily. Building a monitoring tool using open source technologies Grafana, Prometheus, Alerta, the Elastic Stack, and Python along with integrating with proprietary bank software such as the bank chat bot. The monitoring tool is used daily by the application support team during the stock market open and market close.
- **Data Structures Teaching Assistant**, Stony Brook University — August 2021 - May 2022
Teaching assistant for the computer science data structures course (CSE 214). Responsibilities include holding weekly recitation to go over, in depth, the material covered in that week's lecture and holding weekly office hours to help answer students' questions.
- **Certified Soccer Referee**, Suffolk Soccer Interleague — September 2014 - PRESENT
Exercising excellent communication skills, navigating difficult situations, and employing patience. Establishing clear benchmarks for performance and monitoring individual and team progress. Proactively teaching rules and strategies to athletes, which especially assists the younger players who are just beginning to play soccer.

PROJECTS

- **Personal Website** - <https://shaankhan.me>
Personal website developed using React. Uses AWS Lambda functions to allow back-end functionality, in particular the contact me form. Website is deployed on github pages with a custom domain.
- **Google Docs Clone**
Operations Transformation Service that was scaled up and out. Technologies used include sharedb (as the OT Technology), MongoDB (to persist documents and operations), NGINX (as a reverse proxy and load balancer), Express.js (as the base server), Elastic Search (for autocompletion and finding text snippets), Redis (as a pub/sub adapter) and Ubuntu as the operating system on all the servers. These technologies were used to create micro-services such as an authentication service (using JWT), image service, document service, Elastic Search Service, and more.
- **Comic and Story Creation Software** - <https://github.com/Coffee-House-Comics>
Full stack web application built using React for the front-end with technologies such as Konva, Quill, and MUI. For the back-end, an AWS Lightsail instance was used in conjunction with technologies such as NGINX, MongoDB, JWT, and Express.js.
- **Data Structure Review** - <https://github.com/ContactShaanKhan/Data-Structure-Review>
Data structure review created to assist students with studying for exams in CSE214 Data Structures. Used by 60+ students each semester while being a Teaching Assistant.
- **Browser Clicker Game** - Stone Dog Planet - <https://stone-dog-planet.firebaseio.com/>
Project for Fall 2021 SBUHacks hackathon. A front-end only resource-manager game programmed in Javascript meant for play in browser. The website is deployed using firebase.

SKILLS

- **Languages:** JavaScript, C, Python, Java, Git
- **Cloud:** AWS, UpCloud
- **OS:** Linux, Windows
- **Software:** Microsoft Office Suite, Adobe Create Cloud Software, LaTeX
- **Foreign Language:** Czech

AWARDS

- High School Salutatorian (Out of 445 Students)
- Stony Brook University Presidential Scholarship
- NYS Scholarship for Academic Excellence
- South Huntington Public Library Friends of the Library Scholarship
- Member of Tau Beta Pi
- The President's Volunteer Service Award (2017 and 2018)
- National AP Scholar (10 AP Classes; scored 4 or 5 on all)