

# ROHIT CHOUHAN

700 Health Sciences drive, Chapin-H-1120, Stony brook, NY, USA, 11790

☎ 631-710-9938 ✉ [rchouhan@cs.stonybrook.edu](mailto:rchouhan@cs.stonybrook.edu)

## Education

---

### Stony Brook University

*Master of Science in Computer Science CGPA 3.34/4*

**Aug 2021 – Present**

*Stony Brook, NY*

### Institute of Engineering and Technology, DAVV

*Bachelor of Engineering (Information Technology): CGPA 8.37/10*

**Jul 2016 - Sep 2020**

*Indore, India*

## Relevant Coursework

---

Data Structures and Algorithms, System Security, Analysis of Algorithms and Human Computer Interaction

## Experience

---

### Accenture

*Application Development Associate*

**Feb 2021 – Jul 2021**

*Bangalore, India*

- Worked in production support team for a ETL (Extract Transform Load) project for a major Australian bank.
- Responsible for keeping track of 500+ data streams and Jobs that transformed the data from upstream and then processed it to send to the downstream. Fixed issues with the Data stage operations, caused due to delays from upstream or due to outages from the bank side. Also, did daily analysis and workarounds for failing jobs.
- Used tools like IBM Datastage, Oracle PL/SQL developer and IBM infosphere designer client to find the cause of failing jobs and find a fix.

### RackBank Datacenters Pvt. Ltd.

*UI/UX design Intern*

**Jun 2018 - Jul 2018**

*Indore, India*

- Worked with the UI/UX Designer to design and create the posters and flyers for social media handles of the company. Worked upon isometric designs using Adobe Illustrator
- Shot, directed and edited a few advertisement videos for YouTube and website using Adobe Premiere Pro and Adobe After Effects.

## Technical Skills

---

**Programming Languages:** C, C++, JAVA, Python, SQL

**Markup Languages:** HTML, CSS, PS,  $\text{\LaTeX}$

**Tools and Frameworks:** Git, Vim, Oracle SQL, Informatica, Tableau, IBM Datastage

**Scripting Languages:** shell, python

## Projects

---

- **safex:** It is a safe execution program that makes use of library interception to disallow any application to make direct system calls. Instead it sends out the system call information to a delegate process which then checks the system call parameters to a pre-defined policy according to which the system call is then made by the delegate process and the return value is sent back to the application making the system call, the system call parameters and file descriptors are passed between the library and the delegate process through Unix domain socket.
- **url2file:** A ptrace based utility that transparently extends an application with the ability to handle urls, made use of ptrace as a mechanism to intercept system calls that are made to access and open a file, if the file name is a url then the file was downloaded to the system and then the the system calls were made to that downloaded file .
- **Intelligent Traffic Lights using reinforcement learning:** Implemented an Intelligent traffic light system the made use of reinforcement learning to learn from a simulation and then control the traffic light duration and sequence based upon that, we achieved improvement of 72% in terms of both cumulative delay and average queue length.

## Certifications

---

- Linux for developers - The Linux Foundation
- Open source software development methods - The Linux Foundation
- Power of Macroeconomics - UCI
- Using Git for distributed Development - The Linux Foundation