

# Supratik Das

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## EDUCATION

### IIT ROORKEE

BTECH IN ELECTRONICS AND  
COMMUNICATION ENGINEERING  
Junior Year  
Expected May 2021

## COURSEWORK

### UNDERGRADUATE

Computer Networks (Ongoing)  
Probability and Statistics  
Data Structures and Algorithms  
Object-Oriented Programming  
Digital Logic Design  
Computer Architecture and  
Microprocessors  
Signals and Systems

## SKILLS

### LANGUAGES

Golang • Javascript • Python • Java  
C • C++ • PHP • MySQL  
• Clojure • Solidity • Bash

### TECHNOLOGIES

Node.JS • Django • MVC Architecture  
• ReactJS • VueJS • Network Security

## ACTIVITIES

### INTER-IIT TECH MEET 2019

• Gold Medalist (Coding Hackathon).

### D3CODE HACKATHON 2019

• Winners.

### CISCO CTF 2019

• Stood 3th among all individual  
participants from India.

### BRAINWAVES CTF 2019

• Stood 4th among all the participating  
teams from India.

### SYNTAX ERROR 2018

• Won the Hasura sponsored prize.

## REFERENCES

### BJOERN KIMMINICH

OWASP Juice Shop Project Leader  
bjoern.kimminich@owasp.org

## EXPERIENCE

### BOLO | 20TH MAY 2019 - 20TH JUL 2019

- Developed a cloud recording microservice where the recorder acts as a silent 3rd node of a peer-to-peer WebRTC session, preventing unnecessary video lags.
- Developed a chat infrastructure microservice which uses Socket.IO and FCM for its functioning. Used NodeJS's Cluster library for multi-threading and multiple socket management.

### MOODCAFE | 5TH DEC 2019 - 4TH JAN 2019

- Worked on the backend of the Moodcafe app, an anonymous chat application, with an intelligent listener-user matching.
- Implemented effective match algorithms and a proper testing scheme for the REST API and WebSockets.
- Worked on implementing sharding and replica-sets in MongoDB.

## PROJECTS

### GASPER | INTRA CAMPUS DEPLOYMENT SERVICES

- SWS is a tool modelled as PaaS, for deploying and scaling web applications. Engineered on microservices architecture and uses Docker for the containerization of the apps.
- Developed the core pipeline and implemented multi-threading in the deployment process.

### MUZI | MUSIC STREAMING WEB APPLICATION

- Developed a song-downloader pipeline, implementing a queue using the Redis framework and a rest server in Flask.
- Worked on improving the ReactJS based SPA client with features such as smooth scrolling and toasts.

### ACCOUNTS | OAUTH-2 AUTHENTICATION SYSTEM

- Accounts is an indigenous multi-provider authentication framework based on OAuth-2.
- Worked on improving the OAuth flow and developed a Golang based Oauth-2 Client.

### SLACK LENS | SLACK MESSAGE REPOSITORY

- Slack Lens is an application is for listening, storing and retrieving the messages after the 10000 limit of slack. Completely written in Clojure.
- Worked on dockerizing the elastic search service.

## SOCIETIES AND GROUPS

### SDSLABS | SOFTWARE DEVELOPER

- Involved in developing applications for use within the campus and the internet.
- Presented hands-on workshops for UNIX server management and VCS'.

### INFOSECIITR | MEMBER

- Active member of InfoSecIITR team, with specialization in web security.
- Created challenges for cybersecurity competitions aimed at freshmen.