

# Rijish Ganguly

<https://rijish45.github.io>  
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## EDUCATION

### DUKE UNIVERSITY

#### MS IN COMPUTER ENGINEERING

Duke Graduate School  
December 2019 | Durham, NC

### BOSTON UNIVERSITY

#### BS IN COMPUTER AND ELECTRICAL ENGINEERING, CUM LAUDE

College of Engineering  
May 2018 | Boston, MA

## LINKS

Github:// [rijish45](#)  
LinkedIn:// [rijish-ganguly](#)  
WebsiteL// [Rijish Ganguly](#)

## COURSEWORK

### FINANCE

Corporate Finance  
Financial Markets and Investments  
Fixed Income Markets  
Financial Mathematics

### COMPUTER ENGINEERING

Computer and Information Security  
Advanced Data Structures  
Automata Theory and Algorithms  
Robust Server Software  
System Programming  
Software Engineering  
Machine Learning

## SKILLS

### PROGRAMMING

Over 1000 lines:

Python • C++ • Java • C

Web Development

Javascript • HTML • CSS • Bootstrap

• Django

Database

PostgreSQL • MySQL

Familiar:

Arduino • Android • Git

### PLATFORMS

Windows • Ubuntu • CentOS • Kali

## EXPERIENCE

### RHODES INFORMATION INITIATIVE | DATA SCIENCE INTERN

From May 2019 - August 2019 | Durham, NC

- Analyzed threat intelligence data to identify trends of attacks on university networks
- Used Python, ML libraries such as numpy, pandas, matplotlib, scikit-learn, seaborn, PostgreSQL, and pyspark for data visualization and to build models including KNN, Logistic Regression and K-Means.

### ALLUMIA | SOFTWARE ENGINEERING INTERN

Jan 2019 – May 2019 | Durham, NC

- Developed an Android mobile app that interfaces with the Skylight web-API
- Responsible for back-end development using Firebase, GSON and Java
- Led scrum meetings and overall system-testing

### CIVTECT INDIA PRIVATE LIMITED | SUMMER ANALYST

May 2015 – August 2015 | Calcutta, India

- Did cost analysis and created financial projections of impending tenders
- Conducted market research to assess cost of raw materials.
- Supervised the work progress at several construction sites.

## RESEARCH AND TEACHING

### BOSTON UNIVERSITY | UNDERGRADUATE RESEARCHER

September 2015 – December 2015 | Boston, MA

- Worked with Douglas Densmore to create Phagebook, which serves as a social networking interface incorporating lab inventory management and project/personnel networking using HTML, CSS and Java.

### DUKE UNIVERSITY AND BOSTON UNIVERSITY | TEACHING ASSISTANT

May 2015 – Present | Durham and Boston

- Acted as a graduate TA for Electromagnetic Theory (thrice) and Computer Security at Duke University
- Acted as TA for Electric Circuit Theory (twice), Microelectronic Devices and Engineering Thermodynamics at Boston University
- Was responsible for leading lab sections, recitations and grading assignments.

## AWARDS

2019	Data+ Scholar
2018	Eta Kappa Nu Honor Society
2018	Boston University Student Leader Alumni Award
2018	Boston University Student Advisor Award
2014-2018	Dean's List

## INTERESTS

Software Systems • Finance • Data Science

# PROJECTS

## ROOTKIT

- Implemented a loadable kernel module to realize a portion of Rootkit functionality
- Implemented getdent, read and open system calls and modified the Linux kernel system-call table

## MINI-UBER

- Built server software that simulates Uber using Django and PostgreSQL
- Enhanced built-in user model with customized information for rider, sharer and driver
- Provided authentication and email notification functionality

## EXCHANGE MATCHING SERVER

- Developed server software which will match, buy and sell orders for a stock/commodities market
- Used C++, PostgreSQL and multi-threading for superior performance
- Parsed incoming XML request and sent back response in XML format

## COMMAND SHELL

- Constructed a multi-process application that supports functionality of Linux Shell
- Parsed input in parent process and achieved the majority part of operations by invoking system calls in child process
- Designed built in commands to provide access to variables and supported setting environment variables