

# Abhishek Ranjan

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## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY (NIT), SURATHKAL

BACHELOR OF TECHNOLOGY,  
COMPUTER SCIENCE & ENGINEERING  
Karnataka, India  
Aug 2017 - Apr 2021

## LINKS

LinkedIn:// [ranjan103](#)  
GitHub:// [ranjan103](#)  
Portfolio:// [ranjan103](#)

## COURSEWORK

### UNDERGRADUATE

Data Structures and Algorithms  
Design and Analysis of Algorithms  
Objected Oriented Programming  
Operating Systems  
Concrete Mathematics

## SKILLS

- C++/Golang/Shell/Python
- Kubernetes
- Cloud Cost Optimization
- AWS SNS,SQS,PostgreSQL,DMS
- Data Structures and Algorithms

## COMMUNICATION

- English (Fluent)
- Hindi (Native)

## LEADERSHIP AND

### POSITIONS

- **Contributor**, Institution of Engineering and Technology (IET) Club.
- **Mentor** for Competitive Programming, Summer Mentorship Program, NIT Surathkal, 2019.

## EXPERIENCE

### PROPHECY.IO | ARCHITECT

Nov 2021 - Present | Bangalore, India | Remote

- Wrote kubernetes operators to watch over all the services which reconciles if there is any difference in desired state and running state.
- Owning cloud cost management, and introduced multiple logics to reduce the cloud cost like pause operator which resume/pause the prophecycluster(prophecy defined cluster), introduced karpenter autoscaler to limit the use of aws nodes.

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER

Apr 2021 - Nov 2021 | Gurugram, India

- Enhanced features of Aryabhata service on Retina tool, as part of OPTRA team, which is used by all the Amazon sort centers across India to provide better visibility of space and package/loads forecasting.
- Distributed overall traffic with the introduction of new weblab and TCDA inside Amazon service.

### MINDTICKLE | SOFTWARE DEVELOPER INTERN

Nov 2020 - Apr 2020 | Pune, India

- Integrated Cisco webex, go-to-meeting, connect-leader with CallAi, with stack of technologies including, python, kubernetes(to run the service in a pod), helm-chart, postman, and selenium for automation testing of Cisco webex.
- Integrated google calender with webex to get all the users notified for the scheduled meeting. This was done with the stack of technologies as OAuth, event-pipeline, kafka, rabbitmq, and few downstream services of MindTickle.

### PULSE SECURE | SOFTWARE ENGINEERING INTERN

Apr 2020 - Jun 2020 | Bengaluru, India

- Implemented an algorithm that generates test cases of random users and devices with their geo-location along with their IP addresses, gateways, and applications, which was further used for Pulse's ZTA platform for testing features.

## PROJECTS

### HANDWRITTEN EQUATION SOLVER | [GITHUB LINK](#)

- Created an API to solve handwritten mathematical equations.
- Implemented a CNN-based model (99.2% test accuracy) to recognize characters and symbols, and used a math engine to solve the equation.

## ACHIEVEMENTS

- **ACM-ICPC Chennai Regionals**, 2019 – All India Rank 9.
- **ACM-ICPC Kanpur Regionals**, 2019 All India Rank 38
- **ACM-ICPC Asia Amritapuri**, 2019 regionalist.
- **IIT-JEE AIR 2105**
- Ranked 2 (out of 10000+ contestants) in **CodSule**, June Edition, 2019.