

# Ayaan Zaidi

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## EDUCATION

### DELHI TECHNOLOGICAL UNIVERSITY

B.TECH.  
May 2022 (Expected)  
New Delhi, India

## ABOUT

### LINKS

Github://obviyus  
LinkedIn://obviyus

### DOMAINS

Software engineering with focus on scalability, efficiency and security. Other interests include (but not limited to) **systems engineering**, computing at scale and writing high performance APIs.

## SKILLS

### LANGUAGES

Go • Shell • Python • Rust •  $\LaTeX$   
• Haskell • MIT Scheme • Clojure

### TOOLS + TECH

ROS/ROS2 • S3 • docker • git • nginx  
• TravisCI • RDS • AWS Lambda

## OSS CONTRIBUTIONS

vhost-user-backend :PR#9  
Project Lightspeed :PR#24  
Mozilla workshop :PR#595  
Mozilla server :PR#13684  
Mozilla bedrock :PR#8660

## COURSES

- Discrete Optimization
- Nand2Tetris
- Structure and Interpretation of Computer Programs

## EXTRA CURRICULAR

### PHOTOGRAPHY TEAM CO-HEAD

FEB 2020 - PRESENT

- Lead video editor for EngiFest 2020's official **after-movie**

## EXPERIENCE

### VUME INTERACTIVE | BACKEND INTERN

July 2021 - Present | Remote

### GOOGLE SUMMER OF CODE @ CERN | SOFTWARE DEVELOPER

May 2020 - September 2020 | Remote

- Selected as part of ~**1,100** participants worldwide for this 3-month long open-source software project during the summer
- Developed a **CLI tool in Go** to automate the conversion of O<sup>2</sup> Deep Processing Layer dumps to workflow and task templates compatible with AliECS
- Designed conversion logic between **un-ordered YAML dumps to structured JSON** taking care of all related children nodes as well as the ability to graft a new task template to an existing workflow
- Drafted formal schemata that for the instructions that dictate the structure of these templates
- This project was a part of AliECS, the control systems for ALICE (**A Large Ion Collider Experiment**), in preparation for LHC Run 3 scheduled for 2021

### DTUSDC | STUDENT PROJECT

Aug 2019 – Aug 2020 | New Delhi, India

- Developed the software stack of an autonomous in-house bot for the Intelligent Ground Vehicle Competition in **ROS/ROS2**
- Designed the software stack in Python using **cartographer**, **navigation2** on **ROS2 (Foxy)**

### RELIANCE JIO | CSOC SUMMER INTERN

July 2019 – Aug 2019 | Mumbai, India

- Worked on **SIEM** development, use cases and integration

## PROJECTS

### LINUX KERNEL | CONTRIBUTOR

RUST

GITHUB/RUST-FOR-LINUX

- [PR#277] Implemented **sccache** in the CI pipeline for **Rust-for-Linux** to cache build artifacts across runs leading to a **speed-up of ~40%**
- [PR#289] Contributed minor patches to the Linux Kernel, targeting the **5.14** release

### TELEGRAM BOT | MAINTAINER

PYTHON

GITHUB/SUPERSERIOUSBOT

- Highly modular + efficient asynchronous bot for Telegram with CI/CD using **GitHub Actions**
- Serves 10s of different APIs like WolframAlpha, OpenWeather, Google Translate, SMMRY etc. with persistent storage across sessions

### COVID VACCINATION NOTIFIER | MAINTAINER

RUST

GITHUB/VNB

- An **asynchronous script** to monitor the CoWin API for available vaccination slots for districts in India used by over **3,500** users
- Implemented **exponential back-off** to rate-limit the amount of requests made and find a stable query rate