

Junaid H. Rahim

☎ +91 9673184875 • ✉ junaidrahim5a@gmail.com • 🌐 junaidrahim.github.io

CSE Sophomore at KIIT, Bhubaneswar **Github:** github.com/junaidrahim

Education

Bachelor of Technology (B. Tech)

Computer Science and Engineering, Kalinga Institute of Industrial Technology

9.73/10.0

2019-Present

Experience and Open Source Work

International Conference on Learning Representations

Guide: Prof. Alexander Rush, Cornell NLP, Cornell University

March 2020 - April 2020

- ICLR 2020 was virtual, worked with Prof. Rush's team to build the open source virtual conference portal.
- Implemented backend to manage all the submitted papers via the OpenReview API. (Python, Flask)
- The portal gathered 1M+ page views, 100k+ video watches and 80k+ chat messages
- Website: https://iclr.cc/virtual_2020/index.html, GitHub: <https://github.com/ICLR/iclr.github.io>

Developer - Web Team

Developer Student Clubs KIIT

September 2019 - Present

- Developed the internal URL redirect service, handling over 1k redirects at peak load. Improved latency and throughput using hashmaps, caching and multi-threading <https://github.com/DSC-KIIT/divert>
- Developed the participant web portal for 'devhack' - an online hackathon. Implemented a serverless system for registration, login, submissions and judging. <https://github.com/DSC-KIIT/devhack>

Full Stack Web Developer

Desire Foundation

August 2019 - Present

- Developed a web based solution to automate and improve the data management of the sales department. (React, Firebase, TravisCI)
- Rebuilt the website and the blog site for improved performance and aesthetic. (GatsbyJS, TypeScript, MySQL)

Technical Strengths

- **Programming Languages:** Python, Javascript, C/C++, Golang
- **Development:** React, PyTorch, Scikit-learn, Pandas, Flask, Echo, NodeJS, Typescript
- **Databases:** MongoDB, MySQL
- **Others:** Git, Linux, SQL, CI/CD, Docker, MS Azure, AWS, Firebase, \LaTeX

Key Projects

HalideOS

An Experimental OS written entirely from scratch.

Sept 2020

- A bare bones x86 operating system written in C++. Implemented the framebuffer, shell and a mini standard library for console programs. <https://github.com/DSC-KIIT/project-halide>

Plothole - AI powered Pothole Reporting

Smart India Hackathon, 2020

December 2019

- Developed an end to end AI powered pothole reporting system. Photos of potholes clicked by citizens are classified by CNN's (VGG-16) to determine validity and severity. <https://github.com/teambitflip>
- Implemented android app, web dashboard and cloud infrastructure (Kotlin, React, Flask, Redis, MS Azure)

Achievements and Extracurriculars

- Won **2nd Prize** in Inerve Data Hackathon, 2020 organised by IGDTUW - Trained 3D CNN's to predict sperm motility from semen sample videos <https://gitlab.com/inerve/sperm-motility-analysis>
- Launched **AI Research Newsletter - KIIT** - A weekly newsletter to share latest popular research papers in ML, DL, and Mathematics among the students of KIIT

Last Updated on November 25, 2020. Hyperlinks at appropriate places