Junaid H. Rahim

+91 9673184875 • junaidrahim5a@gmail.com • junaidrahim.in

Education

Bachelor of Technology (B. Tech) 9.73/10.0
Computer Science and Engineering, Kalinga Institute of Industrial Technology *2019-Present*

Experience and Open Source Work

Freelance Web Developer
The Yellow Filter *Dec 2020 - Jan 2021*
- Developed and deployed the company portfilio website to improve outreach. Used Gatsby and Firebase.

International Conference on Learning Representations
Guide: Prof. Alexander Rush, Cornell NLP, Cornell University *March 2020 - April 2020*
- Worked with Prof. Rush's team to build the open source virtual conference portal for ICLR 2020. Implemented backend to manage all the submitted papers via the OpenReview API. (Python, Flask) [website] [github]
- The portal gathered 1M+ page views, 100k+ video watches and 80k+ chat messages

Web Team Lead
Developer Student Clubs KIIT *September 2019 - Present*
- Developed **Divert** - the internal URL redirect service, handling over 1k redirects at peak load. Improved latency and throughput using hashmaps, caching and multi-threading.
- Developed the participant web portal for **devhack** - an online hackathon. Implemented a serverless system for registration, login, submissions and judging.

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 official blog for improved performance and aesthetic. (GatsbyJS, TypeScript, MySQL)

Technical Strengths

- **Programming Languages:** Python, Golang, Javascript, C/C++
- **Development:** NodeJS, Flask, Echo, React, Gatsby, Next.js, TypeScript, Pytorch, Scikit-learn, Pandas, Numpy
- **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.

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.
- Implemented android app, web dashboard and cloud infrastructure (Kotlin, React, Flask, Redis, MS Azure)

Other Projects
- dogetick, locate-route, code-to-pdf, KIIT Hacktoberfest Website, DevExpo 2020 Website.

Publications

1. **Predicting Semen Motility using three-dimensional Convolutional Neural Networks** Priyansi, Biswaroop Bhattacharjee, and Junaid Rahim. In *Project Innovations in Distributed Computing and Internet Technology, 17th International Conference On Distributed Computing And Internet Technology.*

Achievements and Extracurriculars

- Secured **2nd Prize** in Innerve Data Hackathon, 2020 organised by IGDTUW. [project link]
- Won **3rd Best Paper** Award in 10th Project Innovation Contest, 17th ICDCIT