Junaid H. Rahim

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

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

Backend Engineering Intern
Atlan Technologies Pvt. Ltd. *July 2021 - Present*

- Building the data ingestion platform for the next generation of the product and scalable cloud native ETL jobs to fetch metadata from various data sources
- Python, Kotlin, JDBC, Kubernetes, Argo Workflows, Apache Atlas

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

Developer - Web Team
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.

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

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.*

Key Projects

Sperm Motility Prediction using 3D ResNets
Data Hackathon 2020 - IGDTUW *Nov 2020*

- Uses spatial temporal 3D Residual neural networks to predict sperm motility from videos and tabular data.

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)

Achievements and Extracurriculars

- Secured **2nd Prize** in Innerve Data Hackathon, 2020 organised by IGDTUW
- Won **3rd Best Paper** Award in 10th Project Innovation Contest, 17th ICDCIT
- Started **AI Research Newsletter - KIIT** - A weekly student newsletter to share latest research papers in STEM.
- Secured **3714th** place in Google Hash Code 2020.

Last Updated on September 5, 2021. Hyperlinks at appropriate places