Rohan Lekhwani

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EDUCATION

University of Massachusetts Amherst
Expected: May 2024
MS in Computer Science
GPA: 3.90/4.00
Coursework: Distributed Operating Systems, Information Retrieval, Advanced Natural Language Processing

Indian Institute of Information Technology Pune
Jun 2021
B.Tech in Computer Science and Engineering
GPA: 9.33/10.00 (Department Rank 1)
Coursework: Data Structures and Algorithms, Cloud Computing, Machine Learning

SKILLS

Languages: Python, Typescript, C/C++, Ruby, Java **Frameworks:** Kubernetes, Docker, Rails, ReactJs, Terraform, MongoDB
Software: Google Cloud Platform, Amazon Web Services (AWS), Anaconda, MATLAB, Android Studio, Git

EXPERIENCE

GOJEK | Software Engineer
Jul 2021 – Aug 2022 | Bengaluru, India

- Led Skynet, shared VPC infrastructure as code built using Terraform, to onboard **1300+** internal applications (Blog).
- Architected the internal DNS infrastructure using **GCP Cloud DNS** and DNS peering to enable cross-project services.
- Extended Cerebro, IPAM tool that manages **5000+** IP ranges across Gojek, to be the DCIM source of truth for **200+** routers.

GOOGLE SUMMER OF CODE | Rocket.Chat
May 2021 - Aug 2021 | Remote

- Developed Poll Plus, Typescript based polling app for Rocket.Chat. Downloaded **1600+** times across all servers (Report | App).
- Founded and maintained **RC4Community** - React based componentized platform for online communities. **30+** stars on GitHub.
- Coded features to **additional** projects, GSoC Leaderboard, RC4GitHub, Rocket.Chat within the organization (Contributions).

GOJEK | Product Engineering Intern
May 2020 – Nov 2020 | Bengaluru, India

- Programmed CLI autocomplete feature using ZSH & Homebrew for internal tools within **3 weeks** to achieve **100% onboarding**.
- Revamped internal service deployment portal using Rails and React that drove the monthly active users from **250 to 450**.
- Started ziggurat-web using Gatsby. Became the **first** open-sourced project of the team (GitHub).

DRDO | Research Intern
Dec 2018 – Jan 2019 | New Delhi, India

- Modeled an end-to-end machine learning architecture using Keras to predict landslides with **94%** accuracy.
- Feature engineered over **1 million** GIS time-series data samples between Rishikesh and Gangotri to train the model.

RELEVANT PROJECTS

SOMEITY
Javascript, Chromium, Speech to text, a11y

Chrome based extension to make websites across the Internet more accessible without changing a single line of source code.
Winner of Hack-cessible hackathon. Winner of Pitch Perfect (Webstore | GitHub | ProductHunt).

ALPR FOR INDIAN VEHICLES
Python, Tensorflow, YOLOv3, GCP, Machine Learning

A framework trained on **2500+** images to extract text from license plates and automatically bypass CAPTCHA of an Indian vehicle database to get vehicle and owner information (GitHub).

HONORS AND ACTIVITIES

Engineering co-lead for the **Alexa Prize Challenge** team from UMass Amherst, focussing on LLM deployments and scaling on AWS.
Mentored **two** projects at Rocket.Chat - EmbeddedChat and Rocket.Chat GitHub App at Google Summer of Code 2022.
Best Innovation Award in Computer Science for FastV2C Handnet paper at ICICC, UILA 2020.
Created FaceLook - facial recognition app for missing persons. **Top 1%** in Missing Hackathon out of 2500 participants.
Started InfInITy a competitive programming contest at IIIT Pune. Now held annually on Codechef with **12,000+** submissions globally.

PUBLICATIONS

[1] N. Karra, R. Lekhwani, B. Singh, and T. Hazra. Modeling and Predicting the COVID-19 Trajectory in India. In 2022 IEEE 7th International conference for Convergence in Technology (I2CT), pages 1–5, 2022.

[2] R. Lekhwani and B. Singh. FastV2C-HandNet: Fast Voxel to Coordinate Hand Pose Estimation with 3D CNNs. In International Conference on Innovative Computing and Communications, pages 413–426. Springer Singapore, 2021.