Rahul Indra

LinkedIn Github

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Programming Languages : C, C++, Python

Education

- **Indian Institute of Engineering Science and Technology** — Shibpur, India
  B.Tech in Computer Science & Technology; CGPA: 8.51/10.0 (till 7th Sem) — *July. 2016 – May. 2020*
- **Sri Chaitanya Jr. Kalasala** — Hyderabad, India
  Intermediate Education; Percentage: 96.3 — *May. 2013 – May. 2015*

Experience

- **CERN (The European Organization for Nuclear Research)** — Geneva, Switzerland
  Google Summer of Code Student Developer — *May 2020 - Present*
  - Developing a reliable monitor system for large distributed services to monitor their status and reduce operational costs.
- **media.net (Directi)** — Mumbai, India
  Software Engineering Intern (SRE) — *Dec 2019 - Jan 2020*
  - Designed extensive disk performance monitoring and alerting pipeline. Built a powerful inference system for identifying anomalous behavior through predictive modeling and clustering technique for time series data.
- **Mostly AI** — Vienna, Austria
  Machine Learning Researcher — *June 2019 - July 2019*
  - Solved edge prediction problem using Graph Neural Networks and Graph Convolutional Networks. Generated node embeddings for social graphs using node's features using state of the art in Deep Learning which enhanced the anonymization process of sensitive graphical data.
- **Technische Universität Wien** — Vienna, Austria
  Research Fellow — *May 2019 - July 2019*
  - Developed an evaluation framework for Indoor Localization using Directional Antennas considering various clustering algorithm evaluation methods.
  - Contributed to a planned scientific publication titled "Towards an Evaluation Framework for Indoor Localization using Directional Antennas".
- **Xelpmoc Design & Tech** — Kolkata, India
  Software Engineering Intern — *May 2018 - June 2018*
  - Developed framework for Store Locations prediction for a given business in an urban setup using DBScan Clustering Algorithm and Google Point of Interest API with XPAND Data Analytics team.

Academic Projects

- Handwritten text generation from an input data space of handwritten text using augmented Generative Adversarial Networks- InfoGAN, Pix2pix, CycleGAN and Adversarial GAN. Adapting the architectures to suit the application, and comparison among the results obtained.
- Organized three Capture the Flag contests named Access Denied for students interested in computer security consisted of Pwning, Reversing, Web & Cryptography challenges.

Publications

- CAPTCHAs vulnerabilities and risk Assessment on Indian government websites using Deep Neural Networks. (Under IEEE Transaction Review)

Achievements

- My team MazeRunner secured 2190th rank out of 10724 participants in Google HashCode 2020 Qualification Round.
- Secured 9th position in India in picoCTF 2018 organized by Carnegie Mellon University, USA.
- Secured 1st position in Galaxian (Image Processing Robotics Competition) in INSTRUO (IIEST Tech Fest) in 2017.
- Founded E-commerce startup in 2017 aimed to fulfill students' daily needs and won B-Plan competitions for the same.

Position of Responsibilities

- Ex-General Secretary at CodeIIEST (Computer Science Club of IIEST Shibpur) from May 2018 - July 2019.
- Chapter Head of Computer Security at CodeIIEST since 2016. Founded d4rks0c1ety CTF Team. Host weekly Computer Security sessions followed by short CTF contests.
- Technical Head of Robodarshan (Robotics Club of IIEST Shibpur) since 2017.
- Member in University Table Tennis Team since 2017.

Projects

- **Sentiment Classification :** IMDB Sentiment Classification using LSTM technique on publicly available IMDB datasets.
- **Open Source :** Contributed in NJACK Winter of Code organised by Indian Institute of Technology, Patna.
- **RooMate :** Developed a friendly app system connected with ESP8266 micro-controller for room automation.
- **ALEXA :** Built 8 bit computer capable of arithmetic and logical operations from scratch using basic electronic components.