

RISHI GULATI

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EDUCATION

University of Illinois at Urbana-Champaign (UIUC), USA

Aug 2022 – Dec 2023

Incoming graduate student pursuing Masters of Computer Science

University of Mumbai - Ramrao Adik Institute of Technology, India

Oct 2020

Secured Bachelor of Engineering in Electronics and Telecommunication with *Distinction*

(CGPA: 9.37/10)

Placed in **Top 3%** of the program out of **250 students** with **Jr/Sr GPA: 9.89/10** and **Major GPA: 9.76/10**

Relevant Coursework: Engineering Mathematics (4 courses), Structured Programming Approach, Database Management Systems, Object Oriented Programming Methodology, Data Structures, Big Data Analytics, Computer Networks, Digital Communication, Data Encryption and Compression, Image Processing, Machine Vision, Managing Information Systems

TECHNICAL SKILLS

- **Programming:** (Preferred) Python, (Proficient) C, Java (Familiar) C++, MATLAB, R, Kotlin
- **Web and Database:** Angular, React, Flask, Bootstrap, JavaScript, Node.js, MySQL, Postgres, MongoDB
- **AI/ML:** PyTorch, Keras, TensorFlow, OpenCV, Prolog

PROFESSIONAL EXPERIENCES

Tata Consultancy Services, Mumbai, India – *Systems Engineer, TCS iON, 45 hours/week*

Aug 2020 – Present

- Developed operating system applications using Python for conducting assessments in TCS iON's inhouse iLEON OS
- Spearheaded the development of the File Manager App and led the migration of several utilities from Python 2 to 3
- Hosted code explanation sessions for juniors and mentored two recruits, accelerating their learning curve

Software Development Intern, 45 hours/week

Jun 2019 – Aug 2019

- Learned about Agile Methodology and Microservices Architecture for Software Development
- Built an electricity grid management portal for consumers using MEAN Stack technology and constructed an interactive dashboard for providing advanced analytics in the form of charts and diagrams using JavaScript

Reliance Jio, Mumbai, India – *Machine Learning Intern, 50 hours/week*

Dec 2018 – Jan 2019

- Predicted customer churn-rate for Jio customers using Machine Learning models like Decision Trees, Random Forest and Gradient-Boosted Decision Trees
- Performed sentiment analysis by scraping the Google Play Store for reviews on Jio Savan music streaming application using Python's NLTK to visualize areas of improvement

ZoomStart, Navi-Mumbai – *Full Stack Development Intern, (start-up), (part-time), 10 hours/week*

Sep 2018 – Oct 2018

- Embellished existing websites, focusing on improving layout, interface, and user experience.

Technical University of Sofia (TUS), Bulgaria – *onsite, Research Fellow, 35 hours/week*

Jun 2018 – Jul 2018

- Experimented with 3D scanners to create and animate a self-avatar and import it into video games
- Developed a video game using Unreal Engine and Blender for helping children with Autism Spectrum Disorder

Cognologix, Pune – *Web Development Intern, (start-up), 40 hours/week*

Dec 2017 – Jan 2018

- Built a complete web-application for recruitment of employees using Angular Framework.

Ural Federal University, Yekaterinburg, Russia – *onsite, Research Fellow, 35 hours/week*

Jun 2017 – Jul 2017

- Programmed Genetic Algorithms using Palisade Decision Tools Evolver to optimize the loading curve of an industrial transformer and created a demand-side management model for increasing efficiency and minimizing cost
- Defended the research to a multidisciplinary jury of 12 professors at the university and attained **first runner-up prize** in the project presentation competition

PROJECTS AND PUBLICATIONS (First Author)

- Implementation of an educational model leveraging the power of incentive reward theory with Blockchain. In *ITM Web of Conferences* (Vol. 32, p. 03027). EDP Sciences.
- Content and knowledge-based Food Recommending Intelligence Enabled System (FRIES). In *2021 5th International Conference on Computing Methodologies and Communication (ICCMC)* (pp. 1743-1749). IEEE.
- Towards Development of a Virtual Reality Game for Children with Autism Spectrum Disorder. In *2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)* (pp. 452-456). IEEE.

HONOURS

- Secured **333/340** in Graduate Record Examination (GRE) with a perfect score of **170/170 in Quants** (2021)
- Honored with a rank-certificate for attaining **3rd Rank** in under graduations Final-Year (**GPA: 9.94**) (2020)
- Bestowed with a cash award for achieving **2nd Rank** in under graduations Third-Year (**GPA: 9.85**) (2019)
- Received an **appreciation letter** acknowledging research aptitude, issued by program coordinator, TUS (2018)
- Felicitated as the **(youngest) best student** in the ECE department, Ural Federal University, Russia (2017)