

Fahad Shaikh

FINAL YEAR POSTGRADUATE • COMPUTER SCIENCE & ENGINEERING, IIT KANPUR

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Education

2019-Present	M.Tech(Computer Science & Engg.)	IIT Kanpur	10/10
2015-2019	B.Tech(Computer Science & Engg.)	MS University	74.82%
2015	Higher Secondary Certificate	Bright School	86.6%
2013	Secondary School Certificate	Bright School	91%

Research Experience

Intelligent Program Analysis | M.Tech. Thesis | Under Prof. Purushottam Kar

Jan 2020 - Present

- Building machine learning models to automatically repair syntax errors in C programs.
- Applying Semi supervised learning for tagging computer programs based on skills required to solve them. Also developed a web app for data collection for the same.

Internships

MSU Examination Portal (MEP) | Student Intern

Jan. 2018 - March. 2019

- MSU Examination Portal is used to manage the details of examination process for 15+ faculties of MS University and generate reports.
- It is deployed on MSU network and currently in use. I was responsible for maintaining existing code and adding new features.
- **Technologies used** ASP.Net, C.Net, MS SQL Server, SAP crystal reports.

Zen Softech Pvt. Ltd. | Intern

May. 2018 - Jun. 2018

- Built a learning management system which allows organization to offer courses to employees/students.
- Organizations can create courses and batches and provide resources to the employees/students and offer certificates.
- **Technologies Used** Java EE, maven, PostgreSQL, HTML, CSS, JavaScript, Bootstrap.

Projects

Parallel KMeans | Course Project | Parallel Computing | Under Prof. Preeti Malakar

Aug 2019 - Nov 2019

- Created a scalable parallel implementation of K means algorithm to run on cluster of nodes.
- Multiple nodes locally compute the centroids and communicate to determine global centroids using MPI.

Malware Detection | Course Project | Malware Analysis & Intrusion Detection | Prof. Sandeep Shukla

Jan 2020 - March 2020

- Designed a machine learning model to differentiate between malware and benign ware.
- The model uses features obtained from both static analysis like assembly code, strings in source code etc and dynamic analysis like network communications and dlls loaded obtained by running the malware in cuckoo sandbox.

Other Projects

Password Manager | Self Project

Jan 2018 - March 2018

- A desktop application in java to manage passwords securely.
- The GUI is created using java swing and passwords are stored in a local file encrypted using AES encryption.

ShareIT | Self Project

Feb 2018 - March 2019

- A desktop application in java to share files between two desktops over a network.
- GUI is created using java swing package and java network(net) package is used for network communication.

Scholastic Achievements & Extracurricular activities

- Secured 558 rank in Graduate Aptitude Test in Engineering (GATE).
- Worked as a volunteer in one-week long National Level Short Term Training Program on Big Data Analysis workshop conducted in MSU.
- Worked as Teaching assistant for ESC101 (Fundamentals of Computing) from Aug 2019 to Nov 2019 and Jan 2019 to March 2019.

Technical Skills

Languages	C++, Core Java(8), Python, Familiar with :Scala, C#.Net
Database	MySQL, PostgreSQL, Familiar with :MS SQL server
Front-end	HTML, Javascript, Angular 6, Familiar with : CSS
Misc	Git, TeX TeX, shell script, Familiar with : octave, MPI, openMP, django, python libclang

Relevant Courses

- Malware Analysis & Intrusion Detection
- Programming for performance
- Parallel Computing
- Advanced Topics in Algorithms and Data Structures