

Akshat Agrawal

#include "Engineer/Software"

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WORK EXPERIENCE

MathWorks, Bangalore — C++ Software Developer

FEBRUARY 2020 - PRESENT

- **GLIM ASYNC Workflow Enhancement:** Owned and Enhanced MathWorks Infrastructure of Messaging to support async workflows with return values. GLIM is the inter-threading messaging infrastructure used under the hood of the entire line of MathWorks Products.
- **GLIM Componentization and Qt Re-architecture:** Did a major re-architecture of GLIM.
- **A lot of bug-fixing:** As a part of the core MATLAB and Simulink team, we work almost half of our time solving complex bugs in both legacy code and new features, since our team handles a lot of underlying architecture on top of which the entire line of MATLAB and Simulink tools are built.

MathWorks, Bangalore — Engineer at EDG

JUNE 2019 - FEBRUARY 2020

- Created Variable Groups functionality for Variant Configuration Analyzer of the Variant Manager tool in Simulink.
- Collaborated with customers and also gave a workshop as a part of the EDG to solve their various product related queries.

Centre for Cyber Security, IIT Kanpur — Summer Research Intern

MAY 2017 - JULY 2017

- Under the guidance of IITK CSE HoD, Prof. Sandeep Shukla.
- Created a Live Threat Intelligence Dashboard using ELK Stack to analyze and track real time Cyber Threats prevailing worldwide.
- Created Malicious URL Detection System using Machine Learning.
- Created a threat intelligence REST API to aggregate the intel from multiple online sources.

HirePro, Bangalore — Summer Intern

MAY 2016 - JUNE 2016

- Created a Resume Parsing System to extract relevant information like skills, work experience and education details from resumes of thousands of candidates.

EDUCATION

Indian Institute of Information Technology, Allahabad.

B.Tech-M.Tech 5-Year Dual Degree:
8.26 CGPA (2014-2019)

Little Angels High School, Gwalior.
(CBSE)

Class XII: 95% (2013-2014)

Class X: 8.8 CGPA (2011-2012)

SKILLS

Programming Languages: C++, Python, JavaScript, HTML, CSS, MATLAB.

Libraries & Frameworks: ReactJS, Django, Scikit-Learn, NumPy, Pandas, Elasticsearch, Logstash, Kibana, Qt/C++.

Concepts Used: Observer Pattern, Strategy Pattern, Facade Pattern, Multi-Threaded Queuing Systems, Data Structures, Algorithms, Object Oriented Concepts, Debugging Skills.

ACHIEVEMENTS

TEDx Speaker

Gave a **TEDx Talk** on Artificial Intelligence, in October 2019 at TEDxYouth@LAHSGwalior

Recognition at IIT Kanpur

My Threat Intelligence Dashboard was featured on the homepage of the website of Cyber Security Center, IIT Kanpur.

Research Thesis, IIT Allahabad

Machine Learning in Stock Market

MAY 2018 - MAY 2019

Created a Stock Screening and Prediction Software by combining the principles of Technical Analysis and Machine Learning, under the guidance of Dr. Pawan Chakraborty.

PROJECTS

funprojects.in

August 2020

- This is a simple and fun website I made, to make your day. Do visit it if you want to get inspired, laugh off a silly joke, or play the old-school snake game. :)

Face Recognition and Verification System

FEBRUARY 2017

- The main aim was to build a face recognition system that tags the face of the person recognized in the trained database, or gives an “unknown” tag to the person it does not recognize.
- The major aspects of it were dataset creation, data preprocessing, and object recognition and verification.
- We used Python-OpenCV for data preprocessing, Principal Component Analysis (PCA) for dimensionality reduction and Artificial Neural Network (ANN) for image classification.

Vice-Chair and Best Delegate Awards at multiple Model United Nations Conferences.

INTERESTS

- Full-Stack Development.
- Design Patterns.
- Writing modular code.

PERSONAL SKILLS

- Ability to build end-to-end products.
- Effective Communication Skills.
- Experience with Customer Interaction.
- Ability to work well within a team.
- Have a knack for new tech stacks & technologies.

HOBBIES

Photography, Travelling, Coding, Socializing, Pool/Snooker.