AMAN TAHILIANI
105 Pocket 2, Jasola Vihar, New Delhi, India-110025

Email: amantahiliani7437@gmail.   **Phone:** +919810234067   Google Scholar

OBJECTIVE:
Looking to seek entry level Software Development jobs, preferably in backend roles, although I have experience and am proficient in both back-end and front-end development. I have worked with Python based (Django, Flask) backend codebases and used devtools and technologies such as AWS (S3, Aurora Pg), Snowflake, Kafka, Redis, Mongo and also built front-end applications using ReactJs. I also have experience with game creation using the Pygame library.

EDUCATION:
B.Tech in Computer Science Engineering, Jaypee Institute of Information Technology,   July 2018 – May 2022
Noida, India, **GPA** (till Semester 6) **: 8.2/10**

TEST SCORES:
GRE: 330 (168Q,162V,4.5AWA)
TOEFL: 112 (29R,29L,26S,28W)

RELEVANT COURSES:
Data Structures, Algorithms and Problem Solving, Database Management Systems and Web Technology, Software Engineering, Secure Design of Software Systems, Computer Networks and Cybersecurity, Big Data Analysis, Devops, Operating Systems, Computer Organisation and Architecture, Non-Linear Data Structures

RELEVANT PROJECTS:

- **Social Media Distraction Limiter**, Major Project, JIIT, Noida   September 2021-Present
  In a team of 3, built a tool using Django RestFramework, Python Selenium library and Flutter to aid those looking to reduce social media screen time without forgoing it completely. Worked mainly on the backend portion which included developing the logic for automated scraping and creation of 7 API endpoints.
- **Escaping Alderaan: Multiplayer Sockets Game**, JIIT, Noida   Jan 2021- May 2021
  In a team of 3, created a multiplayer mystery room escape game using the Python Pygame game library, Adobe Illustrator for graphics and Python socket library to establish client/server pair.
- **PM 2.5 Prediction Model**, Independent Project, JIIT, Noida   Sept 2020- Dec 2020
  Built a model for predicting PM 2.5 particulate pollution levels across 20 Indian cities using Decision Tree and Random Forest techniques and compared the accuracy levels of the two, with Random Forest proven as the better.

INTERNSHIPS:

Innovaccer Analytics, Noida   **SDE Intern (Backend)**   May 2021 - August 2021
  - Created and maintained the backend for two platform level services, License Management and Platform Configuration, as one of three Backend engineers in a team of 9.
  - Maintained over 25 API endpoints using Django RestFramework and ported existing MongoDB collections to PostgreSQL.
  - Optimized a critical API endpoint by reducing the response time from 16 seconds down to under 3 using Redis Caching and bulk creation/updation.

MEDSupervision, Delhi   **Web Development Intern**   Oct 2020 - April 2021
  - Created frontend views and components for the MEDSupervision healthcare platform as per design, using ReactJs framework and optimized load times for existing pages by reducing file sizes.
  - Designed the frontend as well as backend for a Medicine Comparison tool, which suggests alternate medicines containing same or similar salts, using Flask and React.

Research Internship under Dr. Vinay Chamola (Prof. at BITS Pilani)   Oct 2020 - April 2021

- Contributed towards 2 research projects on Blockchain technology and explored its viability in various business sectors like healthcare and financial sector, alongside other DLT technologies like Hashgraph, Zcash, Nano coin and IOTA and also explored the possible contact tracing solutions for the COVID-19 pandemic which can be enabled through the use of Blockchain technology.
- Led my own research project on Machine Unlearning, a process of removing the influence of select data points from within a predictive model, and detailed the reasons why it will have a significant role in the near future, along with efficient methods of achieving it such as SHARD training and state saving.

TECHNICAL CERTIFICATIONS AND PUBLICATIONS:

- "Machine Unlearning and Its Need and Implementation Strategies", Aman Tahiliani, Vikas Hassija, Vinay Chamola, Mohsen Guizani , ACM Digital Library, presented in IC3-2021 (ACM conference).
- "Framework for Determining Suitability of Blockchain", Vikas Hassija, Ishan Jain, Aman Tahiliani,Vinay Chamola, Sherali Zeadally, Transactions on Emerging Telecommunications Technologies, Wiley (Volume 32, Issue10), Oct 2021.
- "Privacy-Preserving and Incentivized Contact Tracing for COVID-19 Using Blockchain", Naren, Aman Tahiliani, Vikas Hassija, Vinay Chamola, Salil S. Kanhere, IEEE Internet of Things Magazine (Volume: 4, Issue: 3), September 2021.
- Completed 5 course Python specialization- Python for Everybody from University of Michigan, Coursera, July 2020.
- Completed HTML, CSS and Javascript for Web Developers certificate through John Hopkins University, Coursera, July 2020.

ACTIVITIES AND AWARDS

- Member of the JIIT Indian Classical Music Society- Tarana from 2018-2020.
- Won 12 awards for Excellence in Indian Classical Music (Keyboard) in school and received the highest level certification (Level 3) for Indian Classical Music (Instrumental) excellence from Pracheen Kala Kendra (All at first division and with distinction) : 2006-2018.