Akshay Kapoor

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EDUCATION

Drexel University, College of Computing and Informatics   Philadelphia, PA

Master's in Computer Science   Anticipated Graduation: June 2023

Narsee Monjee Institute of Management Studies (NMIMS)   Mumbai, India

Bachelor's in Technology in Information Technology   2017 - 2021

SKILLS AND CERTIFICATIONS

Hard Skills: Python, Flask, C, C++, Java, JavaScript, Node.js, jQuery, JSON, AJAX, SQL, MongoDB, PostgreSQL, Bash, Android Studio, PyCharm, IntelliJ, Unity 3D, Unreal Engine, ML, OpenCV, Azure (Cloud)

Soft Skills: Strong presentation, Problem-solving, Data Visualization, Data Analytics, Team Player, Critical Thinking, Active Listening, Goal Oriented, Willingness to Learn, Written Communication

Certifications:

- Introduction to Artificial Intelligence, IBM, Coursera (Feb 2020)
- Python Bootcamp, Bengaluru, India (June 2019)
- Introduction to Game Development, Michigan State University, Coursera (Nov 2018)

WORK EXPERIENCE

Alliance Business Solution Pvt. Ltd. / *Software Engineer Intern*   May 2020 - July 2020

- Analyzed and gathered business requirements specifications by interacting with client and understanding business requirement specification documents
- Implemented frontend of the application using Flask, CSS, AJAX, JSON and JQuery
- Created database schema and wrote the typical SQL queries using different joins, sub queries and nested query
- Collaborated with engineers to review quality of code and design test cases using JUnit 5
- Worked in stages such as analysis and design, development, testing and debugging and Involved in Unit testing and Integration testing
- Experienced with full software development life cycle, architecting scalable platforms, object oriented programming, database design and agile methodologies

PROJECT EXPERIENCE

Rubik's Cube Solver / *Developer*   Nov 2021

- Developed 2D 2x2 Rubik's cube solver agent using BFS, IDS and A* search in Python
- Implemented function to move and calculate allowed moves which helps agent in solving the cube

Disease Identification System Using Image Analysis / *Developer and Team Leader*   July 2020 - May 2021

- Developed a ML model with OpenCV that accepts the facial image of a person and characterize it with the conceivable ailment that patient may have
- Facilitated to benefit the Patients and Doctors with reduced cost and accurate identification of the diseases
- Deployed the model on Azure to create predictive analytics solutions using Flask web-app

College News App / *Developer, UI/UX and Team Leader*   September 2018 - February 2019

- Developed Android app in Java / MySQL to display the college news and send push notifications to subscribed users
- Led a group of five people and completed the project effectively using agile methodology

RESEARCH & PUBLICATIONS

- "Disease Identification System Using Image Analysis", Turkish Journal of Computer and Mathematics Education (SCOPUS Index), April 2021
- "Cyberwarfare", Journal of University of Shanghai for Science and Technology, November 2020
- "Structure of Financial Systems and their Effects on Economic Development", International Journal of Social Science & Economic Research, November 2020
- "Web application: Vulnerability Assessment and Penetration Testing", GIS Science Journal, November 2020