

Akshay Kapoor

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EDUCATION

Drexel University, College of Computing and Informatics

Masters in Computer Science

Philadelphia, PA

2021 - 2023

Narsee Monjee Institute of Management Studies

Bachelors in Information Technology

Mumbai, India

2017 - 2021

WORK EXPERIENCE

Infoway Software

Software Engineering Intern

Sayreville, New Jersey

September 2022 - March 2023

- Automated report generation using **MySQL** and **Python**, saving over 100 hours per month in manual labor
- Utilized various **React** hooks and techniques to implement features such as real-time notifications, pagination, and filtering
- Implemented continuous integration and used **Datadog** to track response times, error rates, and resource usage, resulting in a 20% reduction in build failures
- Developed microservices using **RESTful APIs** with **Node.js** and **Express** to handle features such as product searches, orders, and payments

TruckBux Inc.

Software Engineering Intern

Philadelphia, PA

January 2021 - June 2021

- Implemented a custom backend API for data storage using **NodeJS** and **Express** framework, resulting in improved data management and streamlined database access for the project team
- Built features such as a camera module, push notifications, and social media login using Test-Driven Development practices
- Developed automation solutions leveraging **shell** and **Java** scripts to increase operational efficiency by 30%
- Introduced wider use of isomorphic **React** and **Node.js** for web applications, decreasing load times by roughly 35%

Alliance Business Solution Pvt. Ltd.

Software Engineering Intern

Delhi, India

May 2020 - July 2020

- Implemented user-friendly layout and styling for the application using **HTML** and **CSS**, leading to a 20% increase in user engagement and a 15% increase in user retention
- Utilized **AJAX** and **JSON** for asynchronous data transfer and real-time updates, resulting in a 15% improvement in application performance
- Programmed and integrated **Elasticsearch** algorithm into an e-commerce application, improving the accuracy of search results by 20%
- Worked in stages such as analysis and design, development, testing, and debugging and was involved in designing **JUnit 5** test cases

PROJECT EXPERIENCE

Disease Identification System Using Image Analysis / Team Leader and Developer

July 2020 - May 2021

- Developed a ML model with **Neural Networks** and **OpenCV** that classifies input image to possible ailment, using a dataset of 4000 examples with an accuracy of 88%
- Coordinated with a team of 4 developers to develop a web app using **Flask** and **JavaScript** that allows users to upload a facial image and output accurate identification of the disease
- Utilized image augmentation techniques to increase the training dataset from 800 to 4000 images, resulting in a 10% boost in accuracy

Natural Language Processing: Sentiment Analysis / Developer

September 2021 - October 2021

- Developed a sentiment analysis model using **Python** and natural languages processing libraries such as **NLTK** and **sci-kit-learn**, achieving an accuracy of 85% on test data
- Trained the model on a dataset of over 10,000 labeled tweets, using techniques such as **feature engineering** and **hyperparameter tuning**
- Conducted extensive evaluations of model performance using metrics such as **precision** (0.82), **recall** (0.8), and **F1-score** (0.81)

SKILLS

Programming Languages: Python, C, C#, C++, Java, JavaScript, HTML, CSS, TypeScript, .NET

Frameworks and Design: Node.js, React.js, jQuery, Flask, Angular, Bootstrap, JSON, MATLAB, AJAX, Unity, Bash, OpenCV

Database: SQL, PostgreSQL, MySQL, MongoDB

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