Akshay Kapoor

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EDUCATION

Drexel University, College of Computing and Informatics — Philadelphia, PA
Master's in Computer Science (GPA: 3.16) — Anticipated Graduation: June 2023

Narsee Monjee Institute of Management Studies (NMIMS) — Mumbai, India
Bachelor's in Technology in Information Technology — 2017 - 2021

WORK EXPERIENCE

Infoway Software — **Sayreville, New Jersey**
Software Engineering Intern — September 2022 - Present

- 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. — **Philadelphia, PA**
Software Engineering Intern — 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
- Successfully implemented 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 the 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. — **Delhi, India**
Software Engineering Intern — 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
- Implemented AJAX and JSON for asynchronous data transfer and real-time updates, resulting in a 15% improvement in application performance
- Implemented 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 involved in designing JUnit 5 test cases

PROJECT EXPERIENCE

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

- Developed a ML model with Neural Networks and OpenCV that predicts ailments using the facial image of a person using a dataset of 4000 examples with an accuracy of 85%
- Led a team of 4 developers to develop a web-app using Flask and JavaScript that allows user to upload a facial image and output accurate identification of the disease
- Utilized advanced image augmentation techniques to increase training dataset from 800 images to over 4000 images, resulting in 10% boost in model accuracy

Natural Language Processing: Sentiment Analysis / *Developer* — September 2021 - October 2021

- Developed a sentiment analysis model using Python and natural language processing libraries such as NLTK and scikit-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, Flask, JSON, AJAX, 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
- "Web application: Vulnerability Assessment and Penetration Testing", GIS Science Journal, November 2020