# AKSHAY KAPOOR

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#### **WORK EXPERIENCE**

Dukaan Philadelphia, PA

Founding Engineer / Part-Time

Jan 2023 - Present

- Developed mobile application with React Native and Node, offering push notifications, live tracking and faster checkouts
- Implemented services using **Stripe** for payments, **Drive** for deliveries and architecting custom backend for integration of new features, which streamlined operational efficiency by 40% and increased payment processing speed by 35%
- Utilized Google Cloud and Firebase for secure authentication and enhanced data management efficiency

Infoway Software Sayreville, NJ

Software Engineering Intern

Sept 2022 - Mar 2023

- Automated report generation using MySQL and Python, saving over 100 hours per month in manual labor
- Optimized UX with React hooks for real-time notifications, pagination, and filtering to achieve 30% boost in performance
- Mitigated build failures by 20% through Continuous Integration and used **Datadog** to track response times, error rates, resource usage
- Developed microservices using RESTful APIs with Node.js and Express for features such as product searches, orders, and payments

TruckBux Philadelphia, PA

Software Engineering Intern

Jan 2021 - Jun 2021

- Built a custom backend API with Node.js and Express, streamlining data management and database access for the team
- Implemented features such as a camera module and social media login using Test-Driven Development practices
- Developed automation solutions leveraging Shell and Java scripts to increase operational efficiency by 30%
- Managed and optimized AWS services like EC2, S3, and RDS, improving system scalability and security

#### **PROJECTS**

#### Disease Identification System Using Image Analysis / Team Leader and Developer

July 2020 - May 2021

 Led a team of 4 developers in building a Flask and JavaScript-based web app, utilizing a Neural Networks and OpenCV ML model for image-based ailment classification with 88% accuracy, and improved model performance by 10% through image augmentation techniques

## Natural Language Processing: Sentiment Analysis / Developer

September 2021 - October 2021

Leveraged Python, NLTK, and sci-kit-learn to develop and train a sentiment analysis model on a dataset of 10,000+ tweets, achieving 85% accuracy, with performance metrics including 0.82 precision, 0.8 recall, and 0.81 F1-score

## Othello Game Al Development / Developer

January 2022 - February 2022

• Implemented an intelligent Othello agent using Minimax and Alpha-Beta algorithms, achieving consistent victories over random players and efficiently optimizing search times at different depths

#### **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

## **EDUCATION**

**Drexel University, College of Computing and Informatics** 

Masters in Computer Science

Philadelphia, PA 2021 - 2023

**Narsee Monjee Institute of Management Studies** 

Mumbai, India

Bachelors in Information Technology

2017 - 2021

# **SKILLS**

**Programming Languages:** Python, C, C#, C++, Java, JavaScript, HTML, CSS, TypeScript, .NET, SQL, PostgreSQL, MySQL **Frameworks and Design:** Node.js, React.js, jQuery, Flask, Bootstrap, JSON, MATLAB, AJAX, Unity, Bash, OpenCV, AWS, GCP