

AKSHAY KAPOOR

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WORK EXPERIENCE

Dukaan

Full-Stack Developer

Philadelphia, PA

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

Software Engineer

Sayreville, NJ

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

Software Engineering Intern

Philadelphia, PA

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 AI 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

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

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

SKILLS

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

Frameworks and Design: Node.js, React.js, React Native, jQuery, Flask, Bootstrap, MATLAB, AJAX, Unity, Bash, OpenCV, AWS, GCP