

AKSHAY KAPOOR

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WORK EXPERIENCE

Dukaan

Philadelphia, PA

Full-Stack Developer

Jan 2023 - Present

- Developed **Dukaan** mobile application with **React Native** and **Node**, offering push notifications, live tracking and faster checkouts enhancing user experience and functionality, resulting in a 25% increase in user engagement and boosting orders by 50%
- Integrated services using **Stripe** for payments, **Drive** for deliveries and architecting custom backend for integration of new features, significantly increasing payment processing speed by 35% and enhancing order fulfillment efficiency by 40%
- Built a **React.js** and **Node** based admin panel, integrated with **Firebase**, to streamline product and order management and facilitate direct customer communication through push notifications, enhancing operational efficiency and supported data-driven decision making

Infoway Software

Sayreville, NJ

Software Engineer

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
- Reduced build failures by 20% through Continuous Integration and used **Datadog** to track response times, error rates, resource usage
- Constructed 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 - June 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, resulting in a 15% increase in feature usage and a 25% decrease in post-deployment bugs
- Developed automation solutions leveraging **Shell** and **Java** scripts to increase operational efficiency by 30%
- Administered 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 81% 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

Philadelphia, PA

Masters in Computer Science

2021 - 2023

Narsee Monjee Institute of Management Studies

Mumbai, India

Bachelors in Information Technology

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 & Effects on Economic Development", Intl. Journal of Social Science & Economic Research, Nov 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 2D/3D, Bash, OpenCV, AWS, GCP