

# 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

### Dukaan

Full-Stack Developer

Philadelphia, PA

Jan 2023 - Present

- Built mobile applications for native **iOS** and **Android** platforms using **React Native & Node**, enhancing customer ease and retention. Successfully published the app on the **App Store**, incorporating live delivery tracking, push notifications, and secure payments.
- Deployed **Expo Notifications** within the app, enabling automated & personalized notifications for users, improving user engagement.
- Designed and implemented a promo code architecture on **Firebase**, featuring usage limits, flat/percentage discounts, and set validity periods. Seamlessly integrated backend validation with frontend redemption, enhancing campaign efficiency and user satisfaction.
- Integrated third-party APIs like **DoorDash** for seamless delivery logistics and **Stripe** for payment processing, enhancing user trust.
- Orchestrated an Automated Email Dispatch System with **Node.js**, hosted on **Firebase Functions**, streamlining operations by ensuring immediate notification of new orders and alerting to pipeline failures, significantly boosting responsiveness to critical issues.
- Developed a **React.js** based admin panel for operations management, including product listings, orders, and analytics. Features **Expo** for marketing notifications, **Shopify** for advanced analytics, and promo code generation, ensuring scalable & integrated operational solution.

### Infoway Software

Software Engineer

Sayreville, NJ

Sept 2022 - Mar 2023

- Engineered interactive learning modules like gamified quizzes for an EdTech platform using **JavaScript**, **HTML5**, and **CSS3**, supplemented with **React Hooks** for stateful logic and **Redux** for global state management, enhancing user interactivity and content retention.
- Implemented **WebSocket** for real-time communication between students and teachers through an integrated chat feature, fostering an interactive and collaborative online learning environment.
- Established a cloud-based infrastructure on **AWS**, utilizing **EC2** for compute power, **S3** for data storage, and **RDS** for managed database services, ensuring scalable and secure content delivery to thousands of concurrent users.
- Incorporated **Elasticsearch API** for real-time data analytics within the platform, and leveraged **Tableau** alongside **JavaScript** for visualization of student performance metrics, aiding educators in customizing instruction and improving curriculum effectiveness.

### TruckBux

Software Engineer Intern

Philadelphia, PA

Jan 2021 - June 2021

- Revamped the mobile app's UI with **React Native & SASS**, enhancing the food selection and checkout process with customizable meal options and a streamlined checkout flow. Reduced steps & clear action buttons significantly improved user experience and convenience.
- Developed a vendor mobile app for real-time access to orders, customer preferences, and logistics, improving response times and accuracy. This resulted in a 30% increase in vendor satisfaction and a 15% reduction in customer service issues.
- Optimized network interactions for the customer app by integrating **GraphQL**, enabling efficient data retrieval and reducing over-fetching. This optimization led to quicker, more responsive interactions, enhancing app performance and user satisfaction.
- Created a **Node.js** report generation engine for automated vendor reports and sales analytics, improving data-driven decisions.

## PROJECTS

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

July 2020 - May 2021

- Led a team of 4 to develop a ML model with **Python/OpenCV** for disease detection via facial analysis, achieving 89% accuracy.
- Directed the deployment of the model into a **Flask** based web app, streamlining access to point-of-care diagnostics.

## SKILLS

**Programming Languages:** Javascript, Python, C, C++, C#, Java, Bash, HTML5, CSS3, Typescript, SQL

**Frameworks & Design:** React.js, React Native, Node.js, Redux, Redux Thunk, jQuery, GraphQL, Expo, EAS, Figma

**Tools & Technologies:** AWS, Google Cloud Platform, Jenkins, Kubernetes, Docker, Git, Shopify, MySQL, PostgreSQL, Elasticsearch API, Tableau

## 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