AYMAN IBNE HAKIM

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OBJECTIVE

As a Computer Science graduate, I am seeking a software development role where I can leverage my skills in full-stack development and machine learning to contribute to innovative projects, enhance user experiences, and drive technological advancement.

EXPERIENCE

Cleverlyy   June 2024 - Present
Lead Developer   🍎 *iOS App*

· Secured a **SGD 10,000 grant** from NTUitive's Multidisciplinary Team (MDT) Fund to support early development of the platform.
· Accepted into the **NVIDIA Inception Program**, receiving support for growth, infrastructure, and developer tools.
· Led a team of 4 developers in full-stack product development for an edtech platform.
· Worked across all parts of the development process: backend, frontend, and database management.
· Managed cloud infrastructure and deployment processes to ensure platform scalability and availability.
· Deployed web app frontend on cloud for seamless CI/CD workflow.
· Developed and launched a React Native mobile app, leveraging Expo Dev Client for testing and deployment.
· Implemented state management using Redux and ensured secure data storage with SecureStore.
· Integrated in-app purchases and third-party payment gateways for seamless transactions.
· Collaborated closely with the UI/UX designer to ensure a user-centric design and experience.
· Engaged in various business functions including data collection, marketing, and strategic planning.
· Managed API integrations and cloud services, ensuring smooth operation and scalability.
· Communicated with third-party service providers, including payment gateways and API providers, ensuring smooth integration and business partnerships.

EDUCATION

NORTH SOUTH UNIVERSITY   *June 2024*
B.Sc. in Computer Science & Engineering | CGPA: 3.52
Relevant Courses: Data Structures & Algorithms, Design & Analysis of Algorithms, Software Engineering, Software System Architecture, Software Quality Assurance & Testing, Machine Learning, Internet & Web Technology, Operating Systems, Computer Organization & Architecture

BRITISH COUNCIL   *June 2019*
A Level
Grades: 2A 1B
MASTERMIND SCHOOL   *June 2017*
IGCSE
Grades: 4A* 4A

PROJECTS

MedEase   October 2023 - May 2024
Team Member

- Developed **Medease**, a healthcare application, using **Next.js**, **Tailwind CSS**, **Node.js**, **MySQL**, **IPFS**, and **Hyperledger Fabric**, enhancing data security and operational efficiency in healthcare services.
- This application allows patients to have total control of their reports.
- Implemented **permission-based file management system** where medical records are securely stored in **IPFS**, ensuring decentralized storage and enhanced data privacy, as opposed to traditional cloud storage solutions.
- Utilized **Hyperledger Fabric blockchain** to manage immutable records of file details, including CID, owner information, and a comprehensive access list, improving traceability and access control.
- Designed and integrated a user-friendly **appointment booking system**, allowing patients to schedule and manage appointments seamlessly, linked directly with healthcare provider schedules.

Churn Prediction Model   October 2023
Individual

- Managed a dataset of 10,000 entries, implementing techniques like One-Hot-Encoding and SMOTE for data preprocessing.
- Applied multiple algorithms (Random Forest, Decision Tree, AdaBoost, Gradient Boost, XGBoost, SVM, Logistic Regression, Nearest Neighbor) to find optimal solutions.
- Used GridSearchCV for tuning hyperparameters and regularization to refine models, achieving an F1 Score up to 0.61 and AUC up to 0.86 with Gradient Boost, which was identified as the most effective model.

NSU Cafetria   February 2023 - May 2023
Team Member

- Designed and developed a dynamic Cafeteria Food Order web application using **HTML**, **Tailwind CSS**, **PHP**, and **MySQL** that allows online ordering and queue management for hassle-free pickup.
- This innovative system not only enhances user experience but also optimizes operational efficiency, providing a streamlined solution for ordering and fulfilling customer preferences.
- Implemented live search using **AJAX** and **jQuery**
- Implemented push notification system using Service Worker.

PUBLICATIONS

Investigating the Factors Affecting Risky Levels of Alcohol Consumption among Students Using Machine Learning Approach   DOI: 10.1145/3690771.3690777
Co-Author, Presentation held at ACMLC 2024, July 2024

- This study utilizes ML algorithms to identify key factors influencing alcohol consumption among students from a dataset of a Portuguese school. We employed Decision Trees, Random Forest, and Ensemble Learning, achieving an accuracy of 80.9% on the test set. Notably, the project applied XAI techniques (LIME, SHAP) to enhance model transparency and interpret influential factors.

SKILLS

Programming Languages	Java, C, C++, Python, JavaScript, PHP, SQL, HTML, CSS
Frameworks	ReactJS, React Native (Expo, Dev Client), Node.js, Spring Boot
State Management	Redux, Context API
Cloud	AWS (EC2, RDS, S3), Vercel
Mobile Development	React Native, In-App Purchases
Database Management	MySQL
Payment	Payment Gateway Integration (SSLCommerz), Subscription Models
Machine Learning Libraries	scikit-learn, XGBoost, Pandas, NumPy
Automation Testing Tools	Selenium
Languages	English, Bangla, Hindi