Akarshan Mishra

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EDUCATION

Bachelor of Science in Computer Science   **Expected May 2025**
University of Alberta   Edmonton, AB
- Coursework in Android, Algorithms / Data Structures, Object Oriented Programming, Databases.

SKILLS

Languages: Java, Javascript, Python, C++, Dart, SQL, TypeScript, XML
Frameworks: React.js, Vue.js, Node, Flutter, Ionic, NextJs, TensorFlow, MediaPipe
Technologies: Git, Google Firebase, Unix/Linux, Google Cloud Platform, MongoDB, Jira

WORK EXPERIENCE

Web Development Intern   **Jun 2022 – Aug 2022**
GreyJay Energy (*https://play.google.com/store/apps/details?id=io.efficiate&gl=CA*)   Edmonton, AB
- Developed an **android app** that visualizes energy usage and empowers users to make informed decisions, resulting in reduced energy consumption by end-users.
- Created customized widgets in the app using **Vue.js** and **Javascript** to improve the user experience and enhance the functionality of the app.
- Integrated push notifications in the app with **Google Firebase** to ensure timely updates and alerts for users.
- Conducted log-linear analysis on data using **Python's Scikit-Learn** (sklearn) library to make future predictions and used **Vue.js** and **ChartJs** to create UI chart components.

PROJECTS

Job Portal Website   **Feb 2023**
Freelancing Project (**URL** - *https://github.com/1pharaxh/ignite*)
- Engineered a Job Portal Website with **React.js**, implementing hooks and the Context API to improve website performance by 25%. Users can sign up with their email or Google account and apply to jobs.
- Saved $500+ on server costs by utilizing Firebase authentication and Firestore for storing user data. Improved performance and reduced server load by implementing client-side caching.
- Built an efficient admin panel using **React.js** and implemented a **Node.js** based **REST API** to streamline content management and data storage on **MongoDB** and Firebase storage, resulting in a 40% improvement in website performance and increased user satisfaction.
- Implemented a **CI/CD** pipeline to streamline website deployment, reducing time-to-market and improving development efficiency.

Fitness App   **Jan 2023**
Hackathon Project (**URL** - *https://github.com/fardeenfs/FitAI-405FoundNow*)
- Developed a full-stack Android app with **Flutter** for step counting and AI-powered workout detection using **TensorFlow** achieving 95% accuracy. Users can track their weekly reps, calories burned, and daily workout habits.

ASL Classifier Quiz App   **Nov 2022**
Hackathon Project (**URL** - *https://github.com/1akarshan/hacked-beta*)
- Collaboratively developed a full-stack **Android** app that quizzes users on American sign language and recognizes their signed answers. Awarded "Best Hack" out of 30 projects at HackED Beta 2022.
- Leveraged **Vue.js**, **Ionic**, and **Django REST** framework to create a robust front-end and back-end. Employed **TensorFlow** and **MediaPipe** neural network to achieve 85-90% accuracy in classifying users' gestures.

Course Scheduler   **Aug 2022**
Personal Project (**URL** - *https://github.com/1pharaxh/uAlberta-course-scheduler*)
- Created a full-stack web application utilizing **Node.js** and **Vue.js**, streamlining class scheduling for university students by creating a google calendar like time table with the chosen courses and reducing drafting time by 80%.
- Created a scraper with **Puppeteer** to extract course data and implemented a **REST API** using **ExpressJS** and **NodeJS** to store and retrieve the information in a **MongoDB** database.