ARYAN DHAWAN

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Experience

Software Engineer Intern **August 2024 – Present**
Hackathons Canada *Waterloo, Ontario, Canada*

- Designed and deployed a scalable data scraping service using Flask, consolidating data from **20+ endpoints** into a SQL database, reducing manual data collation time by **40%**.
- Automated database cleanup for a **500+ record** PostgreSQL database by developing Python scripts to detect and eliminate duplicate entries, improving data integrity by **15%**.
- Engineered a daily task summarization email system to improve team alignment for a 10-person engineering team.

Software Developer Intern **May 2024 – August 2024**
Stealth Startup *Alexandria, Virginia, USA*

- Enhanced app performance by **20%** or (**550 milliseconds**) by refactoring both the frontend and backend to optimize state management and rendering efficiency using Google Cloud Platform and Elastic Search.
- Reduced page load times by **25%** and hosting costs by **15%** by implementing a Flask-based caching system, streamlining delivery of **500+** article posts.
- Utilized Android Studio, and the Firebase CLI, to port the app onto the Testflight portal for IOS users.

Software Developer & Lead **October 2021 – May 2024**
FRC Team 4976 *Georgetown, Ontario, Canada*

- Developed and deployed **3 full-scale** front-end applications using Dart, Flutter, ensuring seamless integration with respective platforms.
- Streamlined data distribution, reducing processing time by **25%**, and managed app submissions to iOS/Android app stores.
- Managed a data distribution pipeline handling **2000+ data cells** for real-time robotics strategy evaluations in competition settings.

Projects

Aspirants.tech | *MongoDB, Express, React.js, Node.js* **May 2024**

- Developed an easy-to-learn and digestible educational content delivery system using the MERN stack.
- Achieved **10,000+ views/reactions** within six months through Google Analytics by delivering user-centric educational content. Implemented authentication and attached profile components to improve learning.
- Crowd sourced multiple exams from 2018-Present and used HTML/CSS/ Javascript to incorporate the exams and their answers onto the website.
- Utilized Cron jobs to automate daily retrieval of **200+ JEE Advanced questions** from a database, ensuring a consistently refreshed and updated question bank.

Scout-Crescendo | *Flutter, Dart, Excel, Android Studio* **April 2024**

- Reengineered app features for **50+** robotics competitors, optimizing workload processing by **20%** and incorporating personalized feedback through a dynamic response module.
- Collaborated with **8+** team members to process data from **50+ users** into a structured Excel table, delivering actionable insights following robotics competitions.
- Implemented Provider 1.0 and advanced state management libraries, reducing app lag by **10%** and ensuring seamless performance across key functionalities.

Education

University of Waterloo **Expected Graduation: April 2029**
Honours Bachelor of Mathematics (Minor in Computer Science) *Waterloo, Ontario*

Technical Skills

Languages & Frameworks: Python, Java, JavaScript (ES6+), Dart, C · React, Flutter, Flask, Express.js, Django
Web Technologies: HTML5, CSS3, RESTful API Design, Bootstrap
Tools: AWS, Docker, Jenkins, Git, PostgreSQL, MongoDB

Hackathons

Hack the North 2023 — API Winner (**Top 1%** out of **869+ participants.**) September 2023
Pyra Hacks 2022 — **3x Winner** out of **100+** participants. June 2022
Space City Hacks 2022 — **Winner** out of **162+** participants. January 2022