

## Aidan Humpidge

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**Motivated and adaptable junior software developer** with hands-on experience in full-stack mobile and web development. Proven ability to build scalable apps using Flutter, Firebase, and modern JavaScript frameworks. A police constable with a strong track record in high-pressure environments, data analysis, and team leadership. Actively building a portfolio of real-world projects and open source contributions. Seeking opportunities to apply technical and problem-solving skills in a professional development role.

## Skills and Technologies

- **Languages & Frameworks:** Python, Dart, JavaScript (Vue.js, Node.js, Express), HTML, CSS, PHP, SQL
- **Tools & Platforms:** Git, Firebase (Auth, Firestore), HiveDB, Flutter, REST APIs, Google Analytics and strong awareness of agile methodologies.
- **Additional Skills:** Complex web scraping, AI/API integration (OpenAI, Assembly AI), UI/UX design

## Projects

### Please Save This Package - Flutter Package Registry (2025)

- Developed a **registry that highlights popular Flutter packages** with no updates in over a year, addressing a key community concern about abandoned dependencies.
- Built a custom **Python Web scraper** to extract data from pub.dev and GitHub, generating **JSON reports of outdated packages and their open issues**.
- Created a fast, responsive frontend using **HTML5 CSS3** and **JavaScript**, dynamically loading data and deployed using **Node.js**
- Implemented automated weekly scraping via a scheduled script, timed to align with user engagement trends gathered through **Google Analytics** and user feedback.
- Received **positive feedback from the Flutter developer community** and incorporated the features suggested by users promptly.

### Rhythm - Habit Tracker (2025)

- Created and released a minimalist mobile app, coded in **Dart** and using the **Flutter** framework which allows users to track and manage their daily habits on the go.
- Implemented **support for in-app purchases**, providing users with both free and premium services.
- Provided full **CRUD** functionality with **HiveDB**, managing all user data on their local device to prompt privacy.
- Delivered **consistent updates** and a **smooth UX** focused on simplicity and motivation.

### StoryTeller - Youtube Automation (2025)

- Engineered a fully automated content pipeline using **Python**, **GoogleTTS**, **MoviePy** and **Assembly AI**.
- The script automatically **scraped interesting web content**, **generated matching video with audio and subtitles** before posting it to YouTube.

- Cut manual content production time by **95%**
- Improved my skills in **automation**, natural language processing and **API orchestration**.

### FlashSmith - Flashcard Generation (2025)

- Built a complex full stack mobile app in the **Dart** language, using the **Flutter** framework.
- Integrated **Firebase** authentication and storage along with the **OpenAI API** for seamless user experience
- Allows users to upload documents or topics and the app will **return a set of flashcards based on the document provided**.
- **Demonstrated expertise in AI integration and real-world educational applications.**

### Experience

- **Open Source Contributions - 2025**
  - Contributed to multiple open-source projects, gaining practical experience in collaborative workflows, version control, code reviews and remote asynchronous collaboration.
  - Added custom encryption features to **Bono-DB**, a Python database management tool, enhancing data security and user experience.
  - Rolled out new UI and performance enhancements for **Pomoroo Timer** and **Expen**, collaborating with developers worldwide via Git, utilizing pull requests and issue tracking.
- **Police Constable** - The Police Service of Scotland - 2021 - Present
  - Led critical investigations, collaborating with multiple agencies to solve complex cases.
  - Managed high-pressure situations requiring quick decision-making and problem-solving.
  - Led a team of 12 officers in warrant initiatives, demonstrating leadership and operational efficiency.
  - Analyzed large datasets, producing detailed reports for legal proceedings.
  - Utilized incident management systems and databases, demonstrating strong technical aptitude.
- **Computing Lecturer** - North East Scotland College - 2020 - 2021
  - Designed and taught courses on software development, cybersecurity, and web technologies, primarily in the VueJs Framework.
  - Created engaging coursework, helping students transition between in-person and online learning.
- **Technical Assistant** - North East Scotland College - 2019-2020
  - Provided IT support, troubleshooting hardware/software issues, and optimizing workflows.
  - Developed internal automation tools to improve ticketing response times.
  - Assisted with cybersecurity initiatives, ensuring robust data protection.
- **First Place Winner** – DSP National Student Software Developer Competition (2020)

### Education

- **HND in Software Development** - North East Scotland College (Grade A, 2020)
- Certificate in **Data Science Mastery** - Udemy (2020)
- Certificate in **Vue.js and Firebase** - Udemy (2019)
- Certificate in **Digital Marketing** - Google (2019)
- Certificate in **Project Planning & Management** - University of Virginia (2019)
- **Higher Mathematics and English** - Fraserburgh Academy (2017)