GitHub: @aidankinzett
Website: aidankinzett.com

AIDAN KINZETT

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EMPLOYMENT

Software Engineer　　　　**National Drones**　　　　**2018 – 2020 (Current)**

- Worked with head of software engineering to build core parts of our online web platform.
- Designed a proprietary viewing system to allow visualisation of assets that can't be reconstructed with standard photogrammetry techniques.
- Developed custom mapping functionality using Leaflet.js and GeoJSON.
- Increased reliability and maintainability of web platform by moving everything to Vue.js from standard JavaScript.
- Implemented a task queuing system using celery that increased web platform responsiveness by offloading long running tasks and calculations.
- Developed thermal imagery processing system to allow visualisation of thermal imagery in the browser.
- Maintained and improved the CI/CD system by using buddy.works.
- Leveraged knowledge in Git, webpack, HTML, Python 3 (Django, Celery, Boto3, Requests, etc.), Docker and JavaScript (Vue.js, Vuetify).

EDUCATION

Queensland University of Technology

Brisbane, QLD　　　　**(QUT)**　　　　**2016 – Current**

- Bachelor of Information Technology (Computer Science) and Bachelor of Mathematics (Operations Research) (currently enrolled)
- Relevant Undergraduate Units: Web Computing, Information Security, Microprocessors and Digital Systems, and algorithms and complexity.

SOFTWARE PROJECTS

Website (aidankinzett.com): You can find some of my projects here.

FlirImageExtractor (GitHub): Thermal image processing library

- Extracts radiometric thermal data encoded in Flir's proprietary image format.
- Applies customizable colour scaling for easy visualization of different temperature ranges.
- Is currently being used by multiple university researchers.
- Hundreds of monthly downloads.

Echo Downloader (GitHub): lecture video recorder

- Check lecture recording RSS feeds, downloads any new lectures, then renames and sorts them into subject folders
- Reverse engineered flash-based video streamer to work out how to scrape video chunks and join them back together.

Skills

- **Proficient:** Git, Linux, Python 3, Django, JavaScript, Vue.js, Vuetify, Docker, HTML, CSS, REST APIs, JSON, Leaflet.js, GeoJSON, webpack
- **Familiar:** SQL, Jira, YouTrack, Reverse Engineering, React