Brandon Dang

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Recent Work Experience

Full stack software developer intern   July 2020 – August 2021
Environment and Climate Change Canada

- Worked in a team of 6 in an Agile development environment to help develop/modernize a web app that provides aviation weather forecast information for many major companies and organizations
- Used Angular, Typescript, and jQuery on the front-end; used Java, Dropwizard (backend framework for RESTful web services), and JUnit (for writing unit tests with at least 75% coverage) on the back-end
- Implemented many new features for the web app, such as porting over all the features from an old Apache Tomcat app; optimized/reduced load times for very large pages
- Added many server-side permission and credentials checks to ensure that sensitive information is not accessible to users without authorization
- Was entrusted with migrating entire web app from Angular 6 to Angular 11, fixed broken dependencies and refactored code
- Took initiative and found and fixed many difficult to detect browser-specific bugs, such as a serious one that crashed Microsoft Edge

Recent Side Projects

- Personal website built using React: https://brandang.github.io/brandang-pages/
- Developed two Android apps for personal use, both of which have video demos that can be viewed on my personal website:
    - Note-taking app where users can embed images and voice recordings within their notes and drag and drop to rearrange sections of the notes
    - Photo encryptor where the bytes in image files are encrypted and the file is only usable/viewable after decryption with a password
- Used modular/reusable code – the two apps have a similar look and feel for that reason
- Both Android apps are installed on my phone, and I use them almost every day

Education

University of Toronto   2017 – Spring 2022

- Computer Science (Honours bachelor); currently a fourth-year student due to graduate
- Achieved annual GPA of 3.52 for the previous year that I was in school

Skills

- Languages: Java, Python, JavaScript, Typescript, C, HTML, CSS, and some SQL
- Technologies: Android, React, Angular, jQuery, JUnit, RESTful APIs / CRUD
- Tools: JetBrains IDEs, Postman, Eclipse