

# Brandon Dang

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## Recent Work Experience

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Full stack developer intern (14 months)

July 2020 – August 2021

Environment and Climate Change Canada

- Worked in a team of 6 in an Agile development environment to help develop/maintain a web application that provides aviation weather forecast data
- Used Angular, Typescript, and jQuery on the front-end; used Java, Dropwizard (back-end framework for RESTful web services), and JUnit (for writing unit tests, achieved at least a 75% coverage for every component) on the back-end
- Implemented many new features, such as porting over an old Apache Tomcat app using a UI wireframe, whilst improving performance for very large pages by up to 80%
- Designed and built several server-side endpoints and added security 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 to troubleshoot many complex technical issues, such as a serious bug that crashed Microsoft Edge

## Recent Side Projects

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- 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 programming to ensure the two apps have a similar look and feel and software design
- Both Android apps are installed on my phone, and I use them almost every day

## Education

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University of Toronto

2017 – Spring 2022

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

## Skills

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- Languages: Python, Java, JavaScript, Typescript, HTML, CSS, SQL
- Technologies/Frameworks: Android, React, Angular, jQuery, JUnit, RESTful API / CRUD
- Tools: JetBrains IDEs, Postman, Eclipse, Git