

# Brenden Wu

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## Skills

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### Languages

- Java, Python, C++, C, SQL, HTML, JavaScript, NodeJS, MSSQL, and CSS

### Technologies

- AWS, TeamCity, Github, Docker, Octopus Deploy, SSMS, P4V (Perforce), Jira, and Confluence.

## Professional Experience

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- 01/2022 – 04/2022 **Software Engineer, Devops**  
*Uptake* [🔗](#)
- Fulfilled customer's request to create a database restore functionality for our database management tool to allow users to revert databases using **AWS S3**, **MSSQL**, and **NodeJS**
  - Reduced weekly cleanup for in-house database management tool using **NodeJS** by automating cleanup functionality for **hundreds of tenants**.
  - Reviewed and evaluated software pipeline, which utilized **TeamCity** and **Octopus Deploy**.
- 05/2021 – 08/2021 **Software Engineer, Devops**  
*Peraso Technologies* [🔗](#)
- Helped manage the company's **TeamCity** Server by creating different projects/configurations and **Python** scripts to maintain the CI/CD workflow.
  - Developed **Python** scripts to upload **TeamCity** data to our company's **Confluence**, making over one hundred test results available to developers and customers.
  - Assisted with scripts to help clean the **TeamCity** servers **halving** the time necessary to access our test branches.
- 09/2020 – 12/2020 **Junior Developer**  
*Futurecom* [🔗](#)
- Executed and **developed manual/automated test cases** to ensure the quality of the company's signal repeater systems.
  - Worked with other developers through the integration process to ensure no errors in the regression analysis.
- 01/2020 – 04/2020 **Software Test Engineer**  
*Sierra Wireless Inc.* [🔗](#)
- Executed end-to-end test cases to verify the functionality of embedded modules deployed on the edge devices of industrial IoT applications. Testing includes cellular connectivity, **over-the-air software** update, **LPWA** functionalities, and device-to-host connectivity.
  - Designed and automated test cases in **Python** to perform regression tests for embedded modules.

## Programming Projects

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- 01/2021 **On the Way!** [🔗](#)  
(*Python, JavaScript, SQL, HTML, and CSS*)  
Prototyped a grocery delivery service web application using **MySQL** for order tracking, the **Google Maps API** for automated store selection, and **Python** for back-end logic.
- 10/2022 **Cloud Profile** [🔗](#)  
(*Python, AWS, React*)  
Utilized an **AWS S3** bucket, **Route 53** domain, and **Cloudfront** distribution/custom SSL to host a **React-based** website on my personal cloud.

## Education

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- 2019 – Present **Bachelor of Applied Sciences in Computer Engineering, Honours (4th Year)**  
*University Of Waterloo*
- Relevant courses: Algorithms and Data Structures, Real-Time Operating Systems, Database Systems, Systems Program & Concurrency, Compilers, Computer Networks, , Software Design & Architecture, Programming for Performance