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 <https://github.com/lucasthiessen14> |  <https://lucasthiessen14.github.io/>

## Skills

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**Languages:** C++/C, HTML/CSS, JavaScript, Python, PHP, SQL

**Tools:** Arduino, Atom, Firestore, Figma, Git/GitHub, Heroku, MongoDB Atlas, UNIX/Linux, Visual Studio

**Libraries/Frameworks:** Bootstrap, Express, Laravel, Next.js, Material UI, Node.js, Pygame, React, Requests

## Experience

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### SOFTWARE ENGINEER | ALERTDRIVING | JANUARY 2023 – APRIL 2023

- Led a team tasked with researching and implementing password encryption methods, resulting in the improvement of secure password storage and retrieval throughout an **SQL** database
- Collaborated with product managers, quality assurance team, and other developers to implement a variety of new features and bug fixes using **PHP, JavaScript (Ajax, jQuery), SQL, HTML, and CSS**
- Authored unit tests for features throughout AlertDriving's system to improve bug detection

### BACK-END SOFTWARE DEVELOPER | YEAR ZERO STUDIOS | MAY 2022 – AUGUST 2022

- Developed a quiz-building application from the ground up using **React, Next.js, Firestore, and Material UI**
- Designed and implemented various new features and bug fixes for multiple websites managed by Year Zero Studios using tools such as **Figma, Git, Firestore, and Heroku**
- Composed support documentation on topics including **Git, Heroku deployment, and Firestore**

### COMPUTING ASSISTANT | UNIVERSITY OF WATERLOO | SEPTEMBER 2021 – DECEMBER 2021

- Developed a mobile version of the Faculty of Arts asset management website using **PHP, HTML, and JavaScript**
- Responsible for software maintenance across the Faculty of Arts applications and asset management website
- Provided desktop and hardware support for students and staff in the Faculty of Arts

### SUPPORT ANALYST | REGIONAL MUNICIPALITY OF YORK | JANUARY 2021 – APRIL 2021

- Provided cellular and desktop support to the employees of the Regional Municipality of York
- Identified and resolved employee issues using **service desk ticketing software, BlackBerry UEM** and **Microsoft Intune**
- Composed support documentation on common issues to reduce the amount of time they take to solve

## Projects

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### REAL-TIME OPERATING SYSTEM IN C | SEPTEMBER 2022

- Designed and implemented a memory management system for the kernel using a first-fit algorithm
- Developed a multi-task priority-based kernel to manage the running tasks, as well as schedule the next one to run using a min-heap and aging
- Implemented inter-task communication and interrupt handling, allowing tasks to communicate with each other and input/output devices

## Education

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### UNIVERSITY OF WATERLOO | EXPECTED 2025

Bachelor of Applied Science in Computer Engineering