

# Jacob William

Software Engineering Intern

I'm a Full Stack Software Engineer specialized in React, NodeJS, Python, C#, and many other languages and frameworks. I also specialize in developing secure and optimized applications using the proper algorithms and software engineering practices. I believe that languages and frameworks are just tools and what matters is who's using them.

## Experience

2018-11 - present	<b>Software Engineering Intern</b> <i>Aclara Technologies, LLC</i> <ul style="list-style-type: none"><li>Developing manufacturing software in C# with real-time analytics, employees management, and fetching data from multiple databases and 3rd party APIs</li><li>MVC design that includes database models, controllers, and views</li><li>Implemented using complex data structures such as binary search trees to handle the large data fetched from data base and API</li></ul>
2018-05 - 2018-07	<b>Software Engineering Intern</b> <i>Open Learning Exchange, Inc</i> <ul style="list-style-type: none"><li>Worked on Android and Angular projects</li><li>Implemented UI for varies of views and backend logic</li><li>Anticipated in code reviews, pull requests, and bugs on GitHub</li></ul>

## Education

2017-03 - 2020-04	<b>Southern New Hampshire University, BA in Computer Science</b> <ul style="list-style-type: none"><li>Taken CS core courses such as: Data Structures and Algorithms course, Advance Database courses, Operation Systems course, OOP course, and varies Intro to programming courses in different languages.</li><li>GPA 3.6</li></ul>
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## Projects

### Cell Productivity

- Developed using C# and Microsoft SQL 2017
- Features real-time analytics, order management and tracking features
- Incorporated in-app messaging system using MongoDB and web sockets
- Handles massive data that are featured from a Workday API

### Authenticator-ExpressJs

- Developed using Nodejs and Expressjs that always a quick plug-and-config to users who wish to implement authentication system and secure RESTful API to their front end applications
- Implemented bcrypt to encrypt sensitive user's data before saving on the database
- Used MongoDB with schemas to design the users model

### Cool It!

- Developed cross-platform, real-time application using React, Redux, Electron, and Firebase that allows to chat and create their own groups.
- Incorporated a storage system with caching capabilities to store loaded media and make the application perform faster.

### Real World Algorithms

- Used C++ to implement concepts learned during my 2nd year in college and implemented a real-world project that reads data from large excel sheets
- It features CRUD operations as well as search functionality.
- Different part of the application demonstrates the performance difference in using Binary Trees, Sorting algorithms and Vectors, Linked-lists and other data structures

## Personal Info

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**GitHub**  
<https://github.com/onlyserenity>

**Portfolio**  
<https://jacobwi.io>

**LinkedIn**  
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## Software

React	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Advance</div>
NodeJS (ES5, ES6)	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Advance</div>
LESS, CSS, SCSS (including @emotions and @styled-components)	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Advance</div>
C#	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Advance</div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Advance</div>
Redux	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Semi-Advance</div>
Android in Java	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Semi-Advanced</div>
Swift	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Intermediate</div>
GatsbyJS with GraphQL	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Intermediate</div>