

# Brandon Chan

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## EDUCATION

### York University

Bachelor of Engineering (Honors) in Computer Engineering

Graduated June 2021

Toronto, Canada

## WORK EXPERIENCE

### Software Engineer Intern

October 2021 – April 2022

Mely.ai

- Worked with a team of 4 engineers to create an application for smart document extraction for a supply chain and logistics application, thereby improving data extraction by 90%
- Designed and constructed webpages in Vue.js to showcasing extracted document data in an interactable and elegant web design
- Created an email messaging feature that would condense user-selectable data into a single file with a concise pre-defined format and be sent to specified emails
- Developed APIs in ASP.NET and Python Flask to support CRUD operations and search functionalities while providing solid data communication from a PostgreSQL database
- Collaborated with the sales, product design and engineering to apply adjustments to SQL database schema thereby establishing a deeper understanding of client needs in an agile environment
- Validated functionalities by using Python Unit Testing Framework and created bug reports to ensure quality of code

## PROJECTS

### MedMemo – Hospital Communication System

Project | React.js, Node.js, MySQL, Firebase

- Created a web-based communication application for healthcare workers in hospitals to increase data entry efficiency by 80%
- Created web pages in React to showcase a list of assigned patients as well as a history patient status according to an S.B.A.R format
- Developed Back-end RESTful API using Express.js and Node.js to provide user creation, authentication, deletion, and data-handling functionalities
- Developed a real-time messaging feature for nurses and physicians using a Firebase database with provided functionalities such as read/unread features, message acknowledgements and deletions
- Designed MySQL relational database to store all related patient information in an efficient and scalable manner
- Implemented security measures using Bcrypt for password hashing and password recovery features

### NuChat – Chat Web Application

Project | React.js, Firebase

- Created a real-time web-based chat application for users to send text-based messages made in React.js
- Developed Firebase NoSQL database to store and update all messages sent and received by all users in real-time.
- Implemented user ability to create and delete chatrooms with corresponding names and descriptions.
- Implemented login system that uses Google credentials for authentication.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript (ES6), C#, Python, SQL, C, HTML, CSS

**Frameworks and Libraries:** Vue, React, Express.js, Flask, ASP.NET, Vuetify, SQLAlchemy

**Technologies and Tools:** Docker, Git, Postman, AWS, MySQL, PostgreSQL, Firebase