

# Patrick Du

patrickdu.com  
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## Skills

**Languages:** JavaScript, Python, C#, HTML/CSS  
**Frameworks & Libraries:** React/React Native, Node JS (Express & Socket.io), jQuery, Bootstrap  
**Cloud and Tools:** Git, MongoDB (Mongoose), RavenDB, Postman, JIRA, AWS, Heroku, Figma

## Experience

### Software Developer // Oculys Health Informatics

Sept 2019 – Present • Waterloo, ON

- Developed C# console application that integrates logged JIRA issues with Harvest weekly timesheets to optimize enterprise time-tracking processes; improved future project cost and time estimation
- Streamlined patient flow bottlenecks associated with hospital data maintenance by implementing a location clusters microservice within the client UI to automate internal support team tasks
- Engineered and deployed 1500+ lines of C# in real-time patient activity tracking dashboards used by 10+ hospitals

### Web Developer // FGF Brands

Jan – Apr 2019 • Toronto, ON

- Constructed component-based UI library with HTML/CSS and JavaScript serving as a style guide to improve consistency for internal tools development
- Built proof of concept (POC) progressive web app with offline support and push notifications to streamline manufacturing team processes such as inventory checks and plant issue reports

## Projects

### Serenity // React JS, Node JS (Express & Socket.io), MongoDB

Sept 2019 – Present

- A social wellness platform that strives to enhance physical and mental well-being through fitness logging and mood tracking
- Utilized Passport.js and local storage to implement OAuth 2.0 and JWT-based authentication for cross-app cybersecurity
- Wrote RESTful API using Node.JS, Express, and MongoDB to handle CRUD operations within application endpoints

### Huddle // React Native, Java (Spring), MySQL

Mar – April 2019

- A mobile social media application that connects NFL fans while supporting local venues
- Implemented MVC design patterns to establish smooth application flow between REST API endpoints, database entities, and user interface

### Portfolio Website (patrickdu.com) // React JS

Feb – Apr 2019

- A response single-page application (SPA) that showcases projects and past work experiences
- Utilized React local state management, lifecycle methods, and dynamic routing to optimize user interface

## Education

### University of Waterloo // Honours Kinesiology (B.Sc.)

Sept 2017 – May 2022

- Specialization in Rehabilitation Sciences with a minor in computing
- Relevant Courses: Introduction to Computer Science I