

Patrick Du

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Skills

Languages: JavaScript, TypeScript, C#, Python, HTML/CSS
Frameworks & Libraries: React/React Native, Node (Express), ASP.NET MVC, jQuery, Bootstrap
Cloud and Tools: Git, MongoDB (Mongoose), RavenDB, Postman, JIRA, AWS, Figma

Experience

Software Developer // Oculys Health Informatics

Sept - Dec 2019 • Waterloo, ON

- Developed C# console that integrates JIRA issue logs with Harvest timesheets automating a weekly 30 minute time-log process
- Automated internal support team tasks using ASP.NET MVC in a service-oriented architecture by implementing a location service within the client UI eliminating patient flow bottlenecks
- Refactored 1500+ lines of production C# into real-time patient activity tracking dashboards used by 10+ hospitals
- Implemented unit tests with NUnit to improve test coverage in hospital bed availability algorithm

Web Developer // FGF Brands

Jan - Apr 2019 • Toronto, ON

- Constructed component-based UI library with HTML/CSS and JavaScript serving as a style guide for internal tools development to improve production speed and handle responsive web design
- Built progressive web app with offline support and push notifications used to streamline manufacturing team processes such as inventory checks and plant issue reports

Leadership

Software Developer // UW Blueprint

Jan 2020 - Present • Waterloo, ON

- Developing a web client for an NPO that improves social service information accessibility through interactive flowcharts
- Writing scalable front-end flowchart components with TypeScript and React to tackle modular backend data

Projects

Serenity // React, Node (Express), MongoDB

Sept 2019 - Jan 2020

- A social wellness web platform that assesses mental well-being through mood tracking and data visualization patterns
- Utilized Passport.js and local storage to implement OAuth 2.0 and JWT-based authentication for cross-app cybersecurity
- Implemented RESTful API using Node (Express) and MongoDB to support CRUD operations

Huddle // React Native

Mar - April 2019

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

Education

University of Waterloo // 3A Honours Kinesiology (B.Sc.)

Sept 2017 - May 2022

- Specialization in Rehabilitation Sciences with an option in Computing