


Ankit Patel

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Technologies

Languages: JavaScript // C++ // C // Java // HTML/CSS

Tools and Frameworks: Node.js // React // Express.js // Socket.io // Git // Bash // Firebase // Azure

Experience

Finastra | *Software Developer Intern*

May 2018—Sept. 2018 | Toronto, Ontario

- Implemented a **reliable messaging** infrastructure using **Node.js** and **RxJS** for communication between servers using **AMQP** messages and **REST** requests, increasing the likelihood of successful message delivery between servers to nearly **100%**
- Built and published **helper NPM modules** to aid developers across company, by providing **simplified communication** to queues and topics as well as **CRUD** operations for **Azure cosmos DB**
- Updated existing services to use fewer **database collections** and reduced the amount of needed **data-base queries** by **30%**, reducing azure service charge by over **\$500** a month
- Developed **notification service** that would notify users via email and text message in **Node.js** via **REST** API
- Created **unit tests** for new code using **Mocha** and **Chai** and ensured that code coverage was at least **95%**

Cambridge Sport's Park | *Front-end Developer*

July 2017—Sept. 2017 | Cambridge, Ontario

- Created website for hockey camp allowing users to easily navigate and view team standings using **React**
- Built **React** component to allow parents to pay fees for hockey camp using **PayPal REST** API application
- Implemented user **authentication** using **Firebase API** and stored camp statistics using **Firebase NoSQL** DB

Projects

Album Consensus | *JavaScript, Node.js, Express.js, ChartJS, HTML, CSS*

July 2018

- Web application that displays general consensus on music albums, created using **Node.js**
- Communicates with Pitchfork API and Metacritic API to retrieve album ratings using **RESTful API**
- Server develops connection and **queries database** to retrieve album specific ratings
- Displays retrieved album ratings in the form of a bar graph using **ChartJS**

Televisor | *JavaScript, ReactJS, Node.js, Typeahead.js, HTML, CSS*

Aug. 2018

- Responsive web application created with **React** to search tv show information and artwork via **TMDb API**
- Utilized **Bloodhound** and **typeahead.js** to create a search bar with a suggestion engine and autofill

Archimedes | *C#, JavaScript, Unity, Arduino*

Nov. 2017

- 2D Puzzle Platformer Game with 10 levels created in **Unity**
- Implemented traditional platformer mechanics and puzzle mechanics using **C#** and **JavaScript**
- Created a joystick controller, that used **Arduino** to convey inputs from the controller to a computer
- Group project, which allowed for application of proper **git version control** and **collaboration**

Chatfinity | *JavaScript, Node.js, Socket.io, HTML, CSS*

Jan. 2017

- Online anonymous chat web application created using **Node.js, HTML, and CSS**
- Real-time chat implemented by using **Socket.io** to emit data between connected users

Discord League Builds | *Python*

June 2018

- Discord bot that retrieves **real-time** statistics of league of legend builds using **Python**
- Implemented functionality to retrieve commands through discord client and sends **API requests** to Champion.gg, currently employed by **80+** discord servers.

Education

University of Waterloo

2017-2022

- Candidate for Bachelor of Software Engineering (BSE)