

# Matthew Mombourquette

☎ (+1) 613-650-7586 | ✉ matt13@mombourquette.com | 🏠 mattmombo.dev | 📺 mmombo

## Education

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### Western University

BSC. MAJOR IN COMPUTER SCIENCE, MINOR IN BIOLOGY

London ON

Oct 2021

## Skills

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### Languages

Java, JavaScript, C++, SQL, HTML, CSS

### Frameworks/Libraries

React.js, Redux, Node.js, Express.js, Bootstrap, Material UI, Jest

### Tools

PostgreSQL, MongoDB, Linux, Git, Apache Maven

## Projects

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### Full Stack Review Site - Hopsy

JAVASCRIPT, NODE.JS, EXPRESS.JS, MONGODB, BOOTSTRAP, EJS, AWS

- Developed a RESTful API backend using Express.js and integrated Passport middleware for user authentication
- Built a fully responsive frontend using Bootstrap, CSS and EJS to ensure optimal viewing experience across devices
- Integrated MongoDB using Mongoose with custom hooks to enforce data relations and security
- Implemented cloud file storage through Cloudinary integration, allowing users to upload images of breweries
- Deployed to remote AWS EC2 instance linked to a remote MongoDB Atlas using Nginx server as a reverse proxy

### Contribution - Real-Time Chat Application

REACT, REDUX, NODE.JS, EXPRESS.JS, POSTGRESQL, SOCKET.IO

- Implemented tickets and submitted pull requests based on requirements using test driven development
- Redesigned database models, REST api routes on backend to facilitate new features
- Added new functionality on front end using Redux, and React with MaterialUI to requirement spec
- Tested new features using Jest for unit testing and Selenium for E2E testing

### Financial Services Dashboard App

JAVA, APACHE MAVEN, AWS

- Designed and developed Java desktop application implementing Service-Oriented-Architecture using Model-View-Controller and Publish-Subscribe patterns to ensure system was highly modifiable
- Implemented multi-threaded services deployed independently on Linux AWS EC2 Instances to allow concurrent users
- Developed as part of a team of five within Software Architecture course using Agile methodologies

### Mock Store Application

C++

- Constructed a mock store system with user authentication, inventory management, shopping cart, text-interfaces and file encryption for use in a Linux environment
- Implemented parsing functions to read/save from local storage to allow data persistence across sessions
- Designed and developed as part of team of four for Object Oriented Design and Analysis Course using Agile development practices facilitated through Jira

## Experience

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### Kingston Pro Painters

PAINTER - SITE MANAGER

Kingston, ON

May 2017 - Aug 2019

- Managed crews of 4 painters on projects between \$1000 and \$10000, ensuring high levels of quality and efficiency
- Increased customer satisfaction by meeting directly with client to set project expectations and quality standards

## Extracurriculars

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### Head Tournament Organizer

WESTERN ELECTRONIC GAMING ASSOCIATION

London, ON

Sept 2017 - Aug 2019

- Organized and operated 50+ local and regional tournaments with 30-80 entrants
- Delegated tasks to group of 10 volunteers, ensuring tournament logistics run smoothly
- Ran charity events in support of The Centre for Addiction and Mental Health (CAMH) generating over \$2000 in charitable donations