

# Matthew Mombourquette

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## Education

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### Western University

Bachelor of Science, Major in Computer Science, Minor in Biology

Oct 2021

London, Ontario

## Technical Skills

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**Languages:** Java, C++, SQL, HTML, CSS, JavaScript  
**Frameworks and Libraries:** Node.js, Express.js, Bootstrap  
**Tools:** PostgreSQL, MongoDB, Linux, Git, Apache Maven

## Projects

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### Full Stack Brewery Review Site - Hopsy | JavaScript, Node.js, Express.js, MongoDB, Bootstrap, AWS

- Designed a fullstack web application that facilitates reviewing craft beers breweries
- Developed a RESTful API backend using Express.js and integrated Passport.js middleware for user authentication
- Built a fully responsive frontend using Bootstrap and JavaScript to ensure optimal viewing experience across devices
- Integrated MongoDB using Mongoose with custom hooks to enforce data relations and security
- Deployed to remote AWS EC2 instance linked to a remote MongoDB Atlas using Nginx server as a reverse proxy

### 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 running independently on Linux AWS EC2 Instances to maximize numbers of possible 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
- Implemented parsing functions to read/save from local storage to allow persistency 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

### Trivia Game App | Java, Apache Maven

- Aggregated data from a PostgreSQL database and OpenTriviaDB API into questions that are pulled by a Java desktop application with score tracking

## Work Experience

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### Kingston Pro Painters

Painter - Site Manager

May 2017 – Aug 2019

Kingston, ON

- Managed crews of 4 painters on site, ensuring high levels of quality and efficiency
- Increased customer satisfaction by meeting directly with client to set project expectations and quality standards

## Leadership / Extracurricular

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### Western Electronic Gaming Association

Head Tournament Organizer

Sept 2017 – May 2019

Western University

- Organized and operated 50+ local and regional tournaments with 30-80 entrants
- Delegated tasks among groups of 5-10 volunteers to deliver quality product to participants and spectators.
- Ran charity events in support of The Centre for Addiction and Mental Health (CAMH) generating over \$2000 in charitable donations