

# David George

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## Education

### Western University (BSc) and Ivey Business School (HBA)

Sept 2018 - Apr 2023 (Expected)

COMPUTER SCIENCE AND BUSINESS ADMINISTRATION

London, ON

- RBC National Black History Month Essay Competition Winner, Alexander-Rutherford Scholarship, and Western Scholarship

## Work Experience

### Mark43 | Software Engineer Intern

June 2022 - Aug 2022

RMS TEAM | REACT, MYSQL, JAVA, ELASTICSEARCH

Toronto

- Leveraged React, Java, and MySQL to create an asynchronous notification pipeline for a leading cloud-native public safety company
- Utilized publisher-subscriber pattern to schedule bulk-update of notification settings, removing the need for manual configuration
- Deployed code-changes to production, where my feature is being used by 10 police agencies across the United States

### Quorum | Software Engineer Intern

May 2021 - Aug 2021

EXECUTE TEAM | REACT, JAVASCRIPT, ASP.NET, MSSQL

Calgary

- Built scripts to collect translation strings across code base and reduce them to a single JSON file, prevented outages for 50,000 users
- Developed JSON form visualizer tool in JavaScript, validated against custom made schema to match data payload requirements
- Created ASP.NET API sets to handle user continuity, document creation and CRUD operations serving 75,000 users

### DraftToCalendar | Software Engineer

May 2021 - Aug 2021

CHROME.GOOGLE.COM/WEBSTORE/DRAFTTOCALENDAR | JAVASCRIPT, GOOGLE CALENDAR API, OAUTH2

Remote

- Ideated, designed, and developed Google Chrome Extension for programmatic school calendar export to Google Calendar
- Managed Google OAuth access token creation, deletion and retrieval to enable the use of Google Calendar API with sensitive scope
- Exported 150+ calendars with an average latency of 2.01 seconds and error rate below 0.41% across all calendars
- Achieved 5.0 star rating on the Google Chrome Web Store with 172 users within first week of launch, through aforementioned actions

### Memoir | Software Engineer

October 2020 - May 2021

ENTREPRENEURSHIP.UWO.CA/MEMOIR | REACT, EXPRESS, AWS, NODE, NEO4J, TYPESCRIPT

Remote

- Pitched and successfully raised \$9000 from Western University's Propel Accelerator, chosen from competitive pool of applicants
- Built RESTful API set in Node and Express to handle CRUD requests from over 100 users, developed their test cases using Jest
- Wrote out efficient NEO4J cypher functions for graphical database to serve update, get, and delete requests across entire service

### YouTube Party | Software Engineer

May 2020 - Aug 2020

YOUTUBEPARTY.LIVE | MONGO, EXPRESS, REACT, NODE, SOCKET.IO

Remote

- Served Express and Node back-end with React front-end to allow users to start/stop, skip and play YouTube videos in sync
- Implemented back-end service in Node to handle 250+ concurrent socket.io connections at launch, with room functionality
- Created internal instant messaging tool for live communication between users with <2S latency using socket.io and Node
- Deployed and monitored service through Heroku and Google Analytics, acquiring 800 users in first week of launch

## Projects & Extracurriculars

### Karaoke Party | Hack The North Winner (Canada's Largest Hackathon)

Hackathon Project

DEVPOST/KARAOKE PARTY | 1ST OUT OF 2184 PARTICIPANTS

- Developed a web conferencing game using React and Socket.io; utilized YIN audio comparison algorithm to compare user's singing to actual artists' frequency and pitch, assigned points based on audio similarity

### Dance Party | Hack Western 7 2nd Place & Telus Award Winner

Hackathon Project

DEVPOST/DANCEPARTY | 2ND OUT OF 432 PARTICIPANTS

- Developed a web conferencing game using React and Socket.io, utilizing rigid body pose detection comparison algorithm to compare participant's pose to dance leader and assigned points accordingly

## Skills

**Languages** Python, Java, JavaScript, MatLab, C++

**Frameworks & Tools** Express, Node.JS, React, Mongo, Mongoose, Sockets.io, Neo4J, POSTMAN, HTTP protocol