Matthew Bicknell

Brighton, MI 48114

(810) 355-6841 | mbickne1@emich.edu

EDUCATION

Eastern Michigan University   **Expected Graduation - December 2022**
- **Major:** Computer Science, B.S.
- **GPA:** 3.43/4.0
- **Programming Coursework:** Data Structures and Algorithms, Operating Systems, Database Principles, Discrete Mathematics, Web Development, Algorithm Design and Analysis, Computer Organization

PROFESSIONAL EXPERIENCE

Promess Inc. Brighton, MI   **February 2022 - Present**
Software Engineering Intern
- Designed and developed multiple full-stack React/Node.JS web applications with client-server architecture
- Used GraphQL to create user-friendly APIs for simple and efficient query execution and response
- Gained experience working with and designing schema for a PostgreSQL database and writing documents to a Google Firestore
- Worked with clients to develop projects according to stakeholder needs and requirements
- Researched MQTT Internet of Things messaging protocol and created a client/broker simulator using C#

SOFTWARE PROJECTS

Github: https://github.com/Mbickne1

Personal Website: https://mbickne1.github.io/
- Designed and developed a simple website using HTML/CSS
- Integrated client-side dynamic functionality

Discord Assistant Bot
- Used the Java Discord API and Java Spring to create a Discord bot deployed to the cloud
- Designed a relational database schema using primary/foreign keys
- Used Java Spring to create a REST API to perform operations on PostgreSQL database

Scheduler Simulator
- Used Java multi-threading to create a simulation of a first come, first served job scheduler
- Used object-oriented programming principles such as inheritance and polymorphism to simulate the different functions of a CPU Job Scheduler

TECHNICAL CERTIFICATIONS

AWS Certified Cloud Practitioner
- Completed the AWS Certified Cloud Practitioner course and passed the certification exam
- Gained experience working with virtualization and cloud computing technologies

SKILLS

Software Languages/Frameworks:
- **Proficient**: Java, React, Node.JS, JavaScript/TypeScript, Git, CSS, HTML
- **Familiar**: SQL, Python, Java Spring, C#

Other Technologies: GraphQL, Apollo, Prisma, PostgreSQL, Heroku, Amazon Web Services, Google Firestore