

Isaac Mbuotidem

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Skills

Languages - C#, Python, JavaScript, HTML5, CSS

Tech stack - Amazon Web Services, Postman, WSL, Docker, SQL, Microsoft Azure, .NET Core, Blazor, Azure DevOps

Experience

Global Traffic Technologies – Software Engineer Intern

June 2020 – Present | MN

- Helped design the underlying data model for a nationwide traffic priority control system using AWS Neptune
- Wrote AWS lambdas using RabbitMQ / MQTT along with AWS SQS and IoT Core to control traffic IoT devices
- Built a web application to allow viewing the provisioned traffic devices using HTML5, CSS3, Express and Node.js
- Wrote unit, API, integration, and end-to-end tests to ensure soundness of the system and help catch errors early
- Led the adoption of best practices such as code style guides, static code analysis, and testing as a first-class citizen

Hennepin County – Software Engineer Intern

May 2019 – June 2020 | MN

- Built support chatbots using C#, the Microsoft Bot Framework, and the Azure Bot Service
- Maintained and added features and unit tests to web applications that power county services
- Built continuous integration/continuous deployment (CI/CD) pipelines for the web applications
- Reduced the time to create reports on software project status by designing and building a work item data mart
- Built a serverless application to perform the data ingestion with Azure Functions and the Azure DevOps REST API
- Developed the ETL and data integration process to power the data mart with Azure Data Factory and SQL Server

Curriculum Associates – Associate Product Manager

July 2015 – July 2016 | MA

- Gathered and documented product requirements in Confluence and user stories in Jira
- Conducted user testing sessions to gather feedback to inform product development focus
- Eliminated blockers, led cross-team meetings, and relayed user testing feedback to the team
- Prepared and periodically presented reports on project status for non-technical stakeholders
- Served as a product owner, ensuring effective collaboration across editorial, design, engineering and QA teams

Projects

[PeerTutor.us](https://www.peertutor.us)

[Source Code](#)

PeerTutor is a web application where users can book tutoring sessions from a pool of college peers. Users select tutors based on ratings, book and pay for sessions, and leave reviews. Features include:

- Third-party login (Google, Twitter, and Facebook)
- Integration with Stripe and Google Maps API's for payment processing and location autocomplete
- Unit and integration tests as well as continuous integration and continuous deployment

Education

Minnesota State University

Mankato, MN

Information Technology 3.6 GPA

Expected May 2021

- Selected Coursework: Algorithms, Software Engineering, Software Testing/ QA, Advanced OOP with Design Patterns

Hamilton College

Clinton, NY

Communication 3.4 GPA

May 2015

- Selected Coursework: Explorations-Computer Science, Introduction to Computer Science, Electronic Communication

Volunteering

Association of Computing Machinery (ACM Student Chapter)

Mankato, MN

Vice Chair

Dec 2019 - Present

- Responsible for developing chapter programs and providing an engaging space for everyone to code.