

# Zakaria Hussein

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## EDUCATION

### University of Minnesota

September 2020 – Dec 2024

*Bachelor of Science in Computer Science*

### Relevant Coursework

*Data Structures and Algorithms (Java), Advanced Programming Principles (OCaml), Computer Architecture (Beginners C++), Computer Science Introductory Core (Object-Oriented Programming in Python and Java), Calculus I/II, Discrete Mathematics, Calculus-Based Statistics and Probability.*

### CompTIA Security+ Certification

October 2024

*Computing Technology Industry Association (CompTIA)*

## EXPERIENCE

### The Opportunity Project

May 2023 – August 2023

*Full Stack Developer*

- Collaborated with a diverse team of 15+ professionals, implementing secure authentication and data visualization features that increased user engagement by 2%.
- Built a React application to empower consumers with federal COVID-19 data, increasing user engagement by 5% and facilitating over 500 monthly test submissions for the MakeMyTestCount.org demo site.
- Contributed to the development of robust backend services by creating APIs and microservices that strengthened functionality and security.

## TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS
- **Frameworks/Libraries:** React, Node.js, Bootstrap, Express, jQuery
- **Developer Tools/Platforms:** AWS, Git, Visual Studio, IntelliJ IDEA, .NET, MySQL

## PROJECTS

### Company Website Development

May 2024 – July 2024

*WordPress, AWS, HTML, CSS*

- Designed and developed a professional company website for Ignite Home Health using WordPress, incorporating custom HTML and CSS for tailored design and functionality.
- Enhanced website performance and scalability by deploying the site on AWS, utilizing EC2 instances and S3 to host static assets, reducing load times by 12%.
- Implemented SEO best practices to improve search engine visibility, increasing web traffic by 15%.
- Ensured website security and reliability by configuring AWS CloudFront for CDN distribution and using AWS Certificate Manager for SSL/TLS encryption.

### Uber Simulation System

February 2024 – April 2024

*C++, JavaScript, JSON, OpenGL*

- Developed and engineered a system of drones and robots for the University of Minnesota campus map, leveraging C++ and machine learning algorithms to achieve a 20% increase in resource utilization.
- Facilitated agile development by utilizing JavaScript for front-end development and JSON for data streaming.
- Improved project management and role assignments by collaborating with 4 colleagues in a Scrum framework.

### Schedule Builder Website

November 2023 – December 2023

*HTML/CSS, React, Bootstrap, PostgreSQL bcrypt*

- Engineered a scalable server-side architecture for a web application using Node.js, reducing loading times by up to 20%.
- Improved security and authentication processes by utilizing Node.js packages such as bcrypt for password hashing and JWT for authentication and authorization, bolstering data security by 40%.
- Elevated website functionality and user engagement by crafting a responsive web application interface using React, Bootstrap, and jQuery front-end libraries.