

Zakaria Hussein

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EDUCATION

University of Minnesota

Bachelor of Science in Computer Science

September 2020 – May 2024

Relevant Coursework

Data Structures and Algorithms (Java), Advanced Programming Principles (OCaml), Computer Architecture (Beginners C++)
Computer science Introductory Core (OO Programming in Python and Java), Calculus 1/2, Discrete
Mathematics, Calculus-Based Statistics and Probability.

EXPERIENCE

Ignite Home Health

December 2024 – Present

Data Analyst

- Optimized housing placement efficiency by developing and implementing data-driven project management frameworks, utilizing predictive analytics to streamline the housing search and placement process.
- Attained high client satisfaction rates by applying software development best practices and design patterns, leveraging quality assurance techniques to maintain high standards of service delivery.
- Improved efficiency of housing stabilization services by deploying advanced communication protocols and relationship management tools, ensuring seamless interactions with key stakeholders.
- Managed automated financial billing processes, enhancing billing accuracy and timeliness for improved financial operations.

US Census Bureau

July 2023 – October 2023

Full Stack Developer Intern

- Prioritized work based on a roadmap to support cross-functional teams, including Data scientists, software engineers, and UX designers.
- Created a user-friendly single page application with mongoDB, React, and Node.js, delivering a swift and intuitive user experience.
- Contributed to project success and innovation by collaborating with 15 software engineers, UX designers, and data scientists.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, Typescript, HTML/CSS

Frameworks/Libraries: React, Node.js, Bootstrap, Express, JQuery

Developer Tools/Platforms: Amazon Web Services, Git, Visual Studio, IntelliJ, .NET, MySQL

PROJECTS

Uber Simulation System | C++, javascript, JSON, OpenGL

February 2023 – April 2023

- Developed and engineered a system of drones and robots on the University of Minnesota campus map, leveraging C++ and machine learning algorithms for optimized resource utilization.
- Improved project management and role assignment by collaborating in a group of four utilizing a scrum framework.
- Facilitated agile development by utilizing JavaScript for front-end development and JSON for data streaming.

Full Stack Website | HTML/CSS, React, Bootstrap, bcrypt, PostgreSQL

November 2023 – December 2023

- Enhanced user experience and reduced loading speed by engineering a scalable server-side architecture for a web application using Node.js.
- Improved security and authentication processes by employing Node.js packages such as bcrypt for password hashing and JWT for authentication and authorization in a Full Stack Website project.
- Elevated website functionality and user engagement by crafting dynamic and interactive user interfaces using React, Bootstrap, and jQuery front-end libraries and frameworks.
- Enhanced performance of database systems by developing backend services and APIs using PostgreSQL.