

ARTHUR BRIDGES

Full Stack Developer

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PROFESSIONAL SUMMARY

I am a dedicated Computer Science professional with expertise in software development, project management, and application security since 2022. I am passionate about solving complex problems through full stack development and eager to work on innovative projects that enhance user experiences and optimize performance.

Notable Projects

- **Network-Attached Storage (NAS)** , I created a file management system for a Network-Attached Storage (NAS) using **TypeScript, Node.js, React, MongoDB, Redux**, and **Raspberry Pi**. I developed a scalable storage solution to facilitate data accessibility and management across networked devices. Utilized **Git** for version control and **documented** the project extensively to ensure easy maintenance and scalability.
- **Real-Time Chat Application:** Engineered a real-time chat application using **JavaScript, React, Axios, Socket.io, bcrypt**, and **Spline**. I developed it to provide secure and dynamic communication between users, featuring real-time messaging capabilities and enhanced user authentication. Implemented **risk mitigation** strategies by incorporating robust security measures, such as end-to-end encryption and secure user authentication protocols, to protect user data and ensure a safe communication environment.
- **Robotic Line-Following System:** Developed an advanced robot using Lego's robotic kit and Python, programming it to autonomously follow lines. Successfully integrated hardware and software components, utilizing skills in robotics, automation, and Python programming.

WORK HISTORY

TECHNICIAN 11/2022 to 05/2024

Spectrum, San Antonio, TX

- **Self-motivated** with a strong sense of personal responsibility, **effectively navigating fast-paced environments** and working both independently and collaboratively, which led to consistently meeting and **exceeding performance targets**, ultimately resulting in my team achieving one of the **top productivity scores in South Texas region**.
- Assisted with day-to-day operations, including **troubleshooting technical issues, maintaining equipment**, and **ensuring optimal network performance**. Managed and configured **switches and routers** to optimize network traffic and reliability. Implemented **preventative maintenance** measures to proactively address potential issues, reducing downtime and enhancing system reliability. **Managed and resolved conflicts** among customers, maintaining a symbiotic relationship between customer and business. This led to our team receiving praise for achieving a **13% decrease in repeat rate**, significantly reducing costs.
- **Passionate** about learning and committed to **continual improvement**, I encountered a challenging network issue that disrupted service for multiple clients. The issue involved

significant packet loss and excess voltage affecting network stability. Using **critical thinking**, I broke down the problem by **analyzing** it through the **OSI model**, starting with the **physical layer** to check for hardware faults and voltage irregularities. I then progressed through the data link and network layers to identify and address packet loss. By systematically evaluating these layers, I pinpointed the root cause and implemented targeted solutions to mitigate the excess voltage and packet loss. I utilized **interpreting technical data** to identify trends that guided my troubleshooting efforts.

- **Strengthened communication** skills through regular, **positive interactions** with **customers**, ensuring their **concerns were addressed promptly and effectively**. **Customers** frequently reached out to my supervisor to commend my excellent service, highlighting my dedication to providing exceptional support and satisfaction.

WAREHOUSE TECHNICIAN 02/2018 to 08/2020 **Adient**, DeKalb, IL

- As a **team lead**, **trained** new technicians on **standard operating procedures**, ensuring **consistency** across the team, which led to **improved efficiency** and reduced errors in our operations.
- Performed **troubleshooting and diagnostics** on malfunctioning equipment, **identifying and resolving** issues quickly, which led to minimized downtime and increased overall productivity.
- **Collaborated** with **cross-functional teams** to ensure timely completion of complex projects, such as **coordinating** with the **quality control** and **logistics departments** to streamline the delivery process, **resulting in a 13% reduction** in product turnaround time.
- Maintained a safe work environment by strictly adhering to established safety protocols and guidelines, which led to a significant reduction in workplace accidents and enhanced overall team safety and productivity.

EDUCATION

Certificate in Science : Computer Science, **05/2024**
The University of Texas At San Antonio - San Antonio, TX

PROGRAMMING SKILLS

Languages: JavaScript, TypeScript, Python, C/C++, HTML5, CSS

Server-Side Skills: Node.js, Django, Express.js, MongoDB, Mongoose, MySQL, Sequelize, GraphQL/Apollo, Firebase, Relational Databases, JSON, NoSQL

Client-Side Skills: React, Redux, TailwindCSS, Bulma, jQuery, Handlebars.js, Bootstrap

Development Systems: Render, Heroku, GitHub, Git, VIM, MERN stack, Docker