Ibrahim Ammar

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Education

University of Michigan - Dearborn — Dearborn, MI
Bachelor of Science, Major in Computer Science, GPA: 3.5 — *Sep. 2021 - Apr. 2024*
- **Relevant Coursework:** Mobile Applications, Software Security, Computer Networks, Data Structure/Algorithms

Henry Ford College — Dearborn, MI
Michigan Transfer Agreement: Computer Science, GPA: 3.8 — *Aug. 2019 - May. 2021*
- Dean's List, Received H. Hackett Scholarship, Henry Ford Engineering Club

Projects

University of Michigan - Dearborn — Dearborn, MI

FutureScopeTech Website Redesign: Collaborative Developer — Aug. 2023 - Apr. 2024
- Led the redesign of FutureScopeTech's corporate website, implementing a modern, responsive design using Next.js and TailwindCSS, optimized for performance and scalability.
- Engineered features such as secure payment integration and a booking system, enhancing user experience with React.js and framer-motion for smooth animations.
- Utilized advanced development tools such as TypeScript, ESLint and Prettier for code quality, and Yarn for dependency management, ensuring maintainable code.

Full Stack Web Platform Development - Abe's Burger Shop — Oct. 2023 - Dec. 2023
- Developed Abe's Burger Shop's web platform with a dynamic React front-end integrated with HTML, CSS, and JavaScript, and a PHP-powered back-end interfacing with SQL databases to manage and display burger data.
- Designed an attractive and intuitive user interface for both customer-facing and administrative features, ensuring a seamless user experience and effective burger management.
- Implemented and executed test cases using Jest and React Testing Library to ensure the platform's functionality, usability, and responsiveness across different devices and browsers.
- Provided detailed project documentation, including a zip file of the source code, SQL database export, and a tutorial with screenshots to guide users through the application's features and functionality.

COVID-19 Data Analysis and Statistical Research — Sep. 2023 - Jan. 2024
- Collaborated with a team to create a comprehensive 300-slide PowerPoint presentation using Tableau, Minitab, and Open Markov, integrating visuals and models based on extensive research into probability and statistics functions.
- Conducted detailed data analysis on the socioeconomic and medical impacts of COVID-19, employing advanced statistical methods to evaluate trends such as unemployment rates, mental health effects, and vaccination efficacy.
- Leveraged Excel for meticulous data management, Minitab for executing in-depth statistical analyses, and Tableau for developing dynamic visualizations, including maps, box charts, and box plots, to effectively communicate complex findings.
- Identified the critical importance of accurate data interpretation and clear visualization, demonstrating how minor data nuances can lead to significantly different outcomes and recommendations, thus highlighting the value of effective data presentation in research.

Work Experience

Precision Controls Systems LLC (Contract) — Farmington Hills, MI
Controls Engineer — *Jun. 2024 - Dec. 2024*
- ∗ Configured, programmed, tested, and troubleshot PLC-based control systems, including firmware updates and IP configuration using BOOTP, and utilized Studio 5000 RSLogix Designer for system setup and maintenance.
- ∗ Leveraged experience from Comau in bin picking automation to implement and optimize systems using robotics and vision technology, enhancing process efficiency and accuracy.
- ∗ Developed a thorough understanding of plant layouts, station configurations, and voltage requirements, including wiring and Ethernet integration, while adhering to stringent safety and industry standards.
- ∗ Collaborated with cross-functional teams to analyze 3D CAD models with JT2GO, conducted precise PLC programming with Studio 5000, and acquired proficiency in CISCO Ethernet switches and GM Power Supply Page.

Primealete Nutrition — Dearborn, MI
Manager — *Dec. 2019 - Apr. 2024*
- ∗ Trained over 30 kitchen staff in safely operating and handling equipment, machinery, and utensils.
- ∗ Ensured high food quality standards by checking delivery contents, verifying product quality, and managing inventory of over 200 items.
- ∗ Demonstrated consistent care, attention to detail, and quality while creating up to 40 identical dishes daily.
- ∗ Initiated cost-saving measures that reduced operational expenses by 15%, while maintaining culinary excellence.

Skills

- Control Systems: Fanuc Robots, Robotics, GCCS, Automation, Control Systems, Control Systems Design
- Software/Tools: GitHub, Jira, Tableau, Minitab, PowerBI, OpenMarkov, Unity, Microsoft Office Suite, Studio 5000, AutoCAD, Siemens TIA Portal and Rockwell FactoryTalk View, AutoDesk Review, JT2Go
- Programming Languages: C++, Python, Java, JavaScript, C#, SQL, Ladder Logic
- Development Environments: Microsoft Visual Studio, Linux, Eclipse, Dev C++, IntelliJ IDEA, VS Code
- Web Development: HTML, CSS, JavaScript (React.js), PHP, Next.js, Vercel