

Robert G. McIntosh

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EDUCATION

Florida Institute of Technology, Melbourne, FL
BS Information Systems

Dec 2016

SKILLS

SQL, NoSQL, Python, Pandas, HTML, CSS, JavaScript, Vue.js, PowerShell, C#, .NET, SharePoint, Interoperability, ETL, SSIS, SSRS, MSSQL, PostgreSQL, MySQL, Power BI, Cority, GIMP, WordPress, Communication, Leadership

WORK EXPERIENCE

NASA Occupational Health Contract Team, Kennedy Space Center, FL Oct 2020 - Present

Applications Programmer (GSE, Inc.)

- Act as the team's IT lead, providing technical expertise and guidance to NASA's Office of the Chief Health and Medical Officer and team members, while also managing and mentoring junior IT staff
- Interface with NASA leadership to develop innovative solutions for electronic health record (EHR) system needs, including data integration, dashboard creation, report automation, and software configuration
- Developed a Python executable utilizing MSSQL to extract, transform, and load clinical data from a medical device software database into an EHR system via API integration
- Successfully utilized Python and Pandas to migrate 40 years of clinic records from a legacy system to a new EHR system, ensuring data integrity and a seamless transition
- Initiated the adoption of Power BI within our team, leveraging EHR data through OData to create interactive dashboards for health professionals, facilitating informed decision-making
- Manage HR ETL process with PostgreSQL and PowerShell; improved efficiency using C# and SharePoint API
- Spearheaded the development of an Agency-wide data compilation and reporting system using C#, SQL, and SSIS, providing daily statistics to NASA leadership through SSRS and BI dashboards
- Led the successful migration of our team's codebase to GitHub, optimizing collaboration, version control, and code management processes
- Directed integration efforts to ensure smooth data exchange between medical devices and EHR system, enhancing workflows and clinical decision support across multiple Agency locations

Florida Institute of Technology Ice Hockey, Melbourne, FL

Aug 2020 - Present

Head Coach

- Lead a team of college student-athletes, employing effective coaching techniques to maximize game performance and foster individual growth
- Utilized Vue.js, Bootstrap, and Google Firebase (Firestore, Authentication, Cloud Storage) to develop a web application for sharing scouting reports, game recaps, statistics, and advanced analytics, improving team performance analysis and strategic planning
- Developed and implemented practice plans and drills to improve individual and team performance, utilizing analytics for strategic decision-making and instruction
- Sparked a 105% membership increase over four seasons through effective recruitment strategies and coaching methodologies, igniting player enthusiasm
- Created and maintain the organization's website using WordPress, incorporating Vue.js, PHP, and MySQL to manage statistics and roster pages

NASA Occupational Health Contract Team, Kennedy Space Center, FL

Nov 2018 - Oct 2020

Applications Analyst (GSE, Inc.)

- Developed, maintained, and enhanced Drupal-based webpages for NASA's Office of the Chief Health and Medical Officer, ensuring compliance with web accessibility standards, using HTML, CSS, and JavaScript
- Managed SharePoint permissions, site structures, and document libraries
- Performed extraction, transformation, and loading of data to EHR system with PostgreSQL and PowerShell

SDI Systems, Melbourne, FL

May 2017 - Nov 2018

Technical Support Analyst

- Provided round-the-clock technical support to customers and field technicians, both on-site and remotely
- Executed SQL queries and manipulations on client databases using SQL Server Management Studio
- Leveraged remote connectivity and virtualization tools to troubleshoot system hardware, software, and end-user issues