

Brian Cao

Full Stack Software Engineer & USAF Veteran

✔ Secret Clearance (DoD), active (Apr 2017 – Apr 2021)

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Skills

- Frontend: JavaScript | React.js | HTML5 | CSS3 | Bootstrap | Tachyon | Formik | Yup
- Backend: .NET | Express.js | Node.js | C# | SQL | Knex.js | Cors
- Data: Microsoft SQL Server | PostgreSQL | MS Excel | Data Visualization
- Tools: Visual Studio | Visual Studio Code | Git | GitHub | SSMS | DBeaver | Render | Postman | Slack | Trello | Discord

Experience

Full Stack Software Engineer

MiVet

Irvine, CA 07/2022 – 11/2022

MiVet is a platform whose mission is to streamline equine veterinary care through technology.

- Utilized JavaScript with React.js library to develop a calendar interface for a simplified event management resulting in a flawless user experience.
- Planned and developed a user-friendly database using SQL and stored procedures for data manipulation and retrieval, resulting in a 50% increase in query performance and a 30% reduction in data entry errors
- Created a dynamic event registration form using Formik and Yup validation, improving user experience and reducing user errors by 25%.
- Designed and developed a RESTful API using the .NET Core framework and C# to connect the database with client-side requests, resulting in a seamless user experience and improved efficiency.
- Implemented server-side validation logic using Microsoft's .NET Core libraries and client-side behavior, reducing data errors by 20% and facilitating ease of use for front-end developers.
- Improved software quality and continuity by collaborating with team members using Git and GitHub, leading to a 20% reduction in bugs.
- Participated in meetings with project manager and product owner to coordinate project responsibilities and daily stand-up meetings along with peer code reviews in an AGILE team environment.

Maintenance Data Analyst

US Air Force

Holloman AFB, NM 04/2017 - 04/2021

- Led a team of five data analysts on a high-priority project for the US Air Force, delivering valuable insights and recommendations that resulted in a 20% improvement in the efficiency and effectiveness of the maintenance management process for aircraft and equipment.
- Successfully reduced report preparation time by 30% through automation of data collection and report generation processes while collecting, monitoring, and evaluating maintenance information system data to prepare visual media, written reports, and special studies to present recommendations and briefings to senior managers.
- Achieved 100% completion of all assigned data projects within the given timeline while efficiently managing and coordinating a team to complete data compiling and filtering projects within deadlines.
- Improved data accuracy by 25% by implementing data validation and error-checking procedures, resulting in informed decision-making and more efficient use of resources while providing timely and accurate aircraft maintenance data statistics and analysis to senior leaders and maintainers.
- Developed and implemented corrective action plans that resulted in a 15% increase in equipment uptime and a 20% reduction in material consumption, saving the organization millions of dollars and improving overall mission effectiveness by identifying and evaluating deficiencies in areas such as equipment performance, material consumption, scheduling, management, and resources, and their impact on the maintenance mission.
- Effectively trained and mentored five new analysts, resulting in a 50% increase in team productivity and improved overall data accuracy. Provided ongoing support and guidance in the use of Microsoft Office software and maintenance information systems, ensuring their proficiency and success in their roles.

Document Conversion Specialist

ViaTRON Systems, Inc.

Gardena, CA

2014 - 2015

- Processed digital images using Kodak OCR and Kofax software to meet quality control standards.
- Conducted data entry and reviews for accurate software documentation.
- Archived and maintained software documents and databases with Microsoft Excel and Access.
- Prepared procedural and user software documentation.
- Collaborated with stakeholders to resolve software issues in compliance with standards.

Projects

Face Recognition Brain

[GitHub Repo](#)

- Developed a full-stack web application using React, Node.js, Express, and PostgreSQL to detect faces in images using AI with a focus on user security and privacy.
- Integrated the Clarifai API for facial recognition and implemented bcryptjs for password hashing to ensure data protection.
- Designed the UI using Tachyon and ParticlesBg to provide an engaging and visually appealing user experience.
- Implemented the backend using Node.js, Express, cors, and knex for database management, optimizing application performance and reliability.
- Deployed and managed the application on Render, showcasing proficiency in cloud infrastructure management and DevOps practices.

Shopping Cart App

[GitHub Repo](#)

- Built with HTML, CSS, JavaScript and Firebase's realtime database.
- Allows users to modify and view a list of items in realtime stored in a firebase database.
- Hosted on the cloud provider Netlify