

JOHN KEARNEY

Web Developer

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Portfolio

GitHub

LinkedIn

www.johnkearney.dev

github.com/JohnKearney2020

linkedin.com/in/johnkearneydev

EDUCATION

Purdue School of Engineering and Technology, Indiana University-Purdue University Indianapolis

May 2018

Bachelor of Science – Mechanical Engineering

Immersive Full-Stack Web Development Coding Bootcamp, DigitalCrafts, Houston, TX

January - May 2020

Full Stack Web Development Certificate

WORK EXPERIENCE

Concorde, Inc. – Philadelphia, PA (remote) – *Line of Business Developer*, MERN Stack

August 2021 - Present

- Acted as the primary troubleshooter over the last year for critical production issues for our main application, rapidly diagnosing and resolving problems to ensure minimal downtime and maintain optimal user experience
- Implemented successful migration of email sending and sweeping functionality to the Microsoft Graph API with OAuth 2.0 authentication using Azure Identity, facilitating up to 5,000+ emails sent daily
- Implemented reusable React components using Redux to manage application state, ensuring a clear separation of concerns and minimizing the need to pass props to child components, which improved maintainability and scalability of the codebase
- Executed standard releases and urgent hotfix deployments using Docker while minimizing application downtime
- Created a process and interface for the manual splitting, classifying, and assigning of 1,000+ daily PDF documents, ensuring federal compliance while greatly reducing the cycle time for the team
- Successfully upgraded main application from Node 10/12 to Node 18, ensuring compatibility with newer features while upgrading many out of date and incompatible packages
- Created MongoDB aggregation pipelines for data-intensive queries, significantly enhancing performance and efficiency by reducing query execution time and the size of responses
- Crafted complex SQL queries using Microsoft SQL Server to extract, manipulate, and analyze large datasets
- Designed and developed multiple Node.js applications using TypeScript, enhancing code quality, maintainability, and performance through strong typing
- Improved server-side unit test coverage by 8% while writing 1,000+ new unit tests using Mocha, Sinon, and Chai and preparing weekly coverage reports for senior management
- Developed comprehensive tests for React components using React Testing Library, Jest, and jest-dom with a focus on replicating user interactions and behavior
- Developed a reusable wrapper enabling seamless integration of Redux global state and thunk middleware within React components during testing
- Developed a reusable wrapper leveraging the react-router-dom and history libraries to simulate navigation and routing functionality within React components during tests ensuring the ability to handle navigation-related scenarios
- Efficiently updated MongoDB and SQL databases in response to production support tickets, satisfying customer requirements while maintaining data integrity

DigitalCrafts – Houston, TX – *Teaching Assistant*

July 2020 – October 2020, June 2021 – August 2021

- Assisted up to 20 students and provided guidance with issues and challenges related to learning web development

Barrios Technology – NASA Johnson Space Center, Houston, TX – *Visiting Vehicle Engineer*

June 2018 – December 2019

- Generated weekly future trash projections used by NASA for short and long-term International Space Station flight planning
- Eliminated 180 work hours per year by consolidating three manual disposal processes into one automated tool using VBA
- Eliminated 104 work hours per year by automating I.S.S. crew counts used for planned and hypothetical flight schedules
- Improved performance of trash projection tool reducing time per projection from over 90 seconds to under 15 seconds
- Voluntarily studied to advanced-user ability in Excel and VBA to fill a team need and aid in automating existing processes
- Greatly reduced disposal team error rate by automating manual calculations, data comparisons, and dubious data flagging
- Allowed for more team members to become proficient in trash projections by creating a user-friendly GUI
- MAPI Recognition Award for time-saving VBA based Excel tools for International Space Station trash projections
- MAPI Recognition Award for ISS international docking adapter dimensional data assessment of 38,000+ items

LANGUAGES AND TECHNOLOGIES

Azure, Docker, Bootstrap, Google Maps API, Jest, React Testing Library, Mocha, Sinon, Chai, MongoDB, Mongoose, Node.js, WSL, Express.js, PostgreSQL, Microsoft SQL Server, Sequelize, Postman, Python, Visual Basic for Applications, React, Redux, TypeScript