

JOHN KEARNEY
Web Developer
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Portfolio | www.johnkearney.dev
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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

DigitalCrafts – Houston, TX – *Teaching Assistant* **July 2020 – October 2020, June 2021 - Present**

- 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

WEB DEVELOPMENT PROJECTS – All projects listed are individual projects

Go Far – MERN stack | gofarapp.herokuapp.com | github.com/JohnKearney2020/goFar

Description: Outerwear e-commerce website allowing users to browse items by category, search, save items, and conduct transactions easily

Environment: MongoDB, Express, React, Redux, Node.js, Bootstrap, Javascript

- Created a RESTful API to handle all CRUD operations (user registration, order creation, user profile editing, and many more)
- Stored product and user data in a MongoDB database with linked collections using MongoDB Atlas
- Added search functionality based on user input using MongoDB .find() method, \$or condition, and regex to display results
- Minimized bandwidth by creating server-side pagination that serves data to the frontend in precise increments
- Implemented user authorization with JWT (JSON Web Tokens) and authorization middleware on protected routes
- Displayed delivery address maps on user orders using server-side geocoding and Google Maps API Javascript SDK
- Implemented user authentication using bcrypt for password encryption on both the frontend and server-side
- Implemented user checkout functionality using the PayPal API and PayPal's sandbox mode

MtG React Project – Frontend | mtgreactproject.netlify.app | github.com/JohnKearney2020/mtgReactProject

Description: Website for viewing and filtering all 20,000+ cards spanning the 28-year history of the *Magic: The Gathering* card game

Environment: React, Redux, CSS, Javascript

- Created dynamic header and background images based on user input using React lifecycle methods
- Minimized API bandwidth by lazy loading images as users scroll down the page
- Mobile responsiveness achieved with Flexbox and extensive use of media queries

Northstar Café – Frontend | johnkearneyrest.netlify.app | github.com/JohnKearney2020/northstar

Description: Static restaurant website featuring menus, locations, reviews, signature dishes, and a functional contact form

Environment: Bootstrap 4, HTML, CSS, jQuery, Javascript

- Built with Bootstrap 4 to be fully mobile responsive with eye catching animations and transitions
- Features animated picture carousels, animated picture galleries, and animated navigation scrolling

LANGUAGES AND TECHNOLOGIES

HTML 5, CSS 3, Bootstrap 4, jQuery, JavaScript ES6, Google Maps API, Amazon Web Services, MongoDB, Mongoose, Node.js, Express.js, PostgreSQL, Sequelize, Postman, Python, Visual Basic for Applications, React, Redux