

JOEL ESTRADA

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SUMMARY

Full-Stack Software Engineer leveraging over 9 years of experience as an Avionics Systems Engineer. Earned a reputation for being detail-oriented, collaborative, and adaptable by supervisors and peers. Performs well in independent and team environments. Recently completed a certification in web development from the University of Washington, where over 200 classroom hours of hands-on training focused on programming skills complemented my past professional experience. Adept at problem solving; system requirements definition, verification testing, quality analysis testing, troubleshooting, project planning, and program management.

TECHNICAL SKILLS

Languages and Tools: Visual Studio Code, HTML, CSS3, JavaScript, Object-Oriented Design, Bootstrap, Responsive Web Design, jQuery, Git, GitHub, REST APIs, Node.js, Express, Handlebars, MySQL, Sequelize ORM, MongoDB, Mongoosejs, Progressive Web Apps, Webpack, Service Worker, Passport.js, Firebase Authentication, Reactjs, AWS S3, AWS EC2, AWS DynamoDB

Applications: IBM Requirements Management DOORS, Zoom Video Conferencing, Slack, Microsoft Office Suite – Word, Excel, PowerPoint, Outlook, Teams

PROJECTS

Party Perfect | <https://github.com/jre23/Party-Perfect> | <https://party-perfect.herokuapp.com>

Collaborated with peers to create a MERN stack web application where users can plan out parties. The web application uses React on the front-end and is designed with Bootstrap. Firebase is used for user authentication and the back-end consists of Node.js, Express, and MongoDB for data storage.

- Role: Managed the web application's model and controller (MVC Framework) by designing and developing API routes, models, and efficient database queries.
- Managed the project's Kanban board and documented all code changes on GitHub.
- **Technologies:** JavaScript, Git, MongoDB, Mongoosejs, Express, Reactjs, Node.js, Heroku, Bootstrap, Firebase, FullCalendar, Cloudinary, Mapbox

React Google Books Search | <https://github.com/jre23/google-books-search> | <https://react-google-books-search-jre.herokuapp.com>

MERN stack web application that displays a list of books based on the user's search. The web application utilizes React on the front-end and is designed with Bootstrap. The Google Books API is used for the book information and the back-end uses Node.js, Express, and MongoDB so that users can save books.

- Role: Developed MERN stack web application based on given wireframe designs.
- Utilized technical knowledge of the React.js library to create reusable components that update and render with an interactive user interface.
- Utilized Bootstrap to take advantage of their mobile-first approach to design.
- Developed the Node.js, Express.js, and MongoDB back-end to manage the server, API routes, and database storage.
- Deployed completed web application to Heroku.
- **Technologies:** JavaScript, Git, MongoDB, Mongoosejs, Express, Reactjs, Node.js, Heroku, Bootstrap, Google Books API

Budget Tracker | <https://github.com/jre23/budget-tracker> | <https://desolate-harbor-98538.herokuapp.com>

This full-stack web application allows users to keep track of their budget. This web application's front-end is designed with Bootstrap. The back-end consists of Node.js, Express, and MongoDB for data storage. IndexedDB is utilized for offline data storage.

- Role: Developed the web application's IndexedDB API, Service Worker API, Cache API, and Webpack functionality to enable a smoother user experience whether or not there is a connection to the network.
- Deployed completed web application to Heroku.
- **Technologies:** JavaScript, Git, MongoDB, Mongoosejs, Express, Node.js, Heroku, IndexedDB API, Service Worker API, Cache API, Webpack

WORK EXPERIENCE

Spectralux Avionics; Redmond, WA

July 2017 – December 2020

Avionics Systems Engineer

- Created documentation necessary for the environmental certification of a third generation communications system.
- Defined, decomposed, and allocated high and low level requirements managed in the IBM Rational Dynamic Object Oriented Requirements System (DOORS).
- Worked with a small engineering team to successfully develop failure analysis documentation.

The Boeing Company; Everett, WA

July 2011 – March 2017

Electronic and Electrical Systems Design Engineer

- Program manager of all aspects of the Ground Maneuver Camera System 2, leading the program through critical gates and major milestones.
- Saved the company several hundred-thousands of dollars on Flight Testing by collaborating with the supplier to test the system in alternate ways.
- Spearheaded a trade study to save 20+ minutes of factory functional testing of the system during production by rearranging and consolidating test steps.

EDUCATION

Certificate of Completion in Full Stack Web Development

University of Washington Professional & Continuing Education – Seattle Campus

- A 24 week-intensive program focused on gaining technical programming skills in HTML5, CSS3, JavaScript, jQuery, Bootstrap, Firebase, Node.js, MySQL, Express Handlebars.js & Reactjs

Bachelor of Science in Electrical Engineering

University of Washington – Seattle Campus

- Majored in Electrical Engineering with a focus on Power Electronics and Electric Devices, Sustainable Electric Energy, and Large-Scale Power Systems