

JOEL ESTRADA

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SUMMARY

Full Stack Software Engineer looking to leverage an extensive background in Aerospace Engineering to break into the world of Software Development. Experienced Avionics Systems Engineer who has earned a reputation for being detail-oriented, collaborative, and adaptable. Performs well in independent and team environments. Professional experience includes system requirements definition, verification testing, qualification testing, failure analysis, project planning, program management, and supplier coordination.

TECHNICAL SKILLS

- Visual Studio Code, HTML, CSS, JavaScript, Bootstrap, jQuery, Git, GitHub, APIs, Node.js, Express, Handlebars, MySQL, Sequelize ORM, MongoDB, Mongoosejs, Progressive Web Apps, Passport.js, React
- IBM Requirements Management DOORS, Zoom Video Conferencing, Microsoft Office Suite – Word, Excel, PowerPoint, Outlook, Teams

PROJECTS

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

- Summary: Worked with peers to create a full stack application where users can plan out parties. The application utilizes React and Bootstrap on the front-end. The back-end consists of Node.js, Express, and MongoDB for data storage.
- Role: Back-end manager of API routes and MongoDB data storage.
- Tools: JavaScript, Git, MongoDB, Mongoosejs, Express, React, Node.js, Heroku, Bootstrap, Firebase, FullCalendar, Cloudinary, Mapbox

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

- Summary: Developed a full stack application that displays a list of books based on the user's search. The application uses React and Bootstrap on the front-end. The Google Books API is used for the book information. The back-end uses Node.js, Express, and MongoDB so that users can save books to view later.
- Role: Sole author.
- Tools: JavaScript, Git, MongoDB, Mongoosejs, Express, React, Node.js, Heroku, Bootstrap, Google Books API

Bear Share | Link to GitHub: <https://github.com/jre23/bear-share> | Link to Deployment: <https://nameless-plains-06669.herokuapp.com>

- Summary: Collaborated with peers to create a full stack application where users can search for and post teddy bears to sell. The application uses Passport.js for user authentication and a MySQL database for storing information.
- Role: Implemented the following features: search bar and search functionality, API route to delete a post in MySQL, API route to update a user's account details, form validation when users create a post
- Tools: JavaScript, Git, MySQL, Sequelize ORM, Express, Handlebars, Node.js, Heroku, Bcrypt.js, Passport, AWS S3 & Cognito, Multer & MulterS3, Tiny Cloud, JawsDB, Materialize CSS

WORK EXPERIENCE

Spectralux Avionics; Redmond, WA
Avionics Systems Engineer

July 2017 – December 2020

- Created the Qualification Test Procedures used for the environmental certification of the Envoy Data Link (Envoy). Collaborated with teammates to create the Qualification Test Report based on Qualification Testing results.
- Defined, validated, decomposed, and allocated numerous Envoy system requirements that are managed in the IBM Rational Dynamic Object Oriented Requirements System (DOORS) software tool which enabled component and system level integration testing.

The Boeing Company; Everett, WA
Electronic and Electrical Systems Design Engineer

July 2011 – March 2017

- Responsible for the program management of all aspects of the Ground Maneuver Camera Systems 2 (GMCS2) obsolescence program for the 777-300ER airplanes.

- Worked with the supplier on program scheduling, risk management, and communicating with high level management.
- Provided technical oversight for requirements development and design verification at the component, system, and airplane level.

EDUCATION

Certificate of Completion in Full Stack Web Development

University of Washington Professional & Continuing Education – Seattle Campus

- Coding Boot Camp

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