Steven C. Calebrese

518.595.9541 || Steve.Calebrese@gmail.com
https://www.linkedin.com/in/steven-calebrese-52264976 || https://github.com/yakattak
https://yakattak.github.io/react-portfolio

Self-Starter. Creator. Engineer.

Web developer skilled at critical and analytical thinking, especially as applied to problem solving and debugging. Excels at offering creative solutions in team environments. Approachable, clear, and personable communicator with a record of adapting quickly in dynamic environments. Adept at making quick, data-driven decisions that lead teams to success.

SKILLS

Technical Skills

HTML5, CSS3, Java, JavaScript ES6+, SQL, MySQL, AWS, EC2, Handlebars, jQuery, Bootstrap,, Object Oriented Programming, (OOP), Node.js, React, NoSQL, MongoDB, DynamoDB, GraphQL, Insomnia, Progressive Web Apps (PWA), Express, MERN, Object Rotational Mapping (ORM), Model View Controller (MVC), Engineering Equation Solver, Maple, Matlab, Minitab, OpenDX, FiPy, SolidWorks, NX7, OnShape, PHI Multipak, Labview, C, Python, Java, Microsoft Office Suite (Word, Excel, Publisher, PowerPoint), Google Suite (Documents, Sheets, Slides, Forms)

Core Competencies

Problem Solving, Time Management, Goal Setting, Conflict Resolution, Clear and Concise Instruction, Relationship Building, Decision Making, Communication, Constructive Feedback, Delegating, Adapting, Motivating, Negotiating

PROJECTS

POST-UP
RESTful API Collaborative Project
https://github.com/Brian-Lets-Go/Post-Up || https://guarded-waters-75502.herokuapp.com

Web application where users can post, view, and signal attendance for pick-up games in their city. Application deployed to Heroku and built using Node and Express to create a RESTful API, Handlebars as a templating engine, and MySQL and Sequelize ORM for the database.

Built models, back-end routes, and performed various troubleshooting operations..

Shindig
Interactive Front-End Collaborative Project
https://github.com/cathmcneel/shindig || https://cathmcneel.github.io/shindig/https://cathmcneel.github.io/shindig/

Worked seamlessly with a team to develop an interactive webpage that uses Google and Ticketmaster APIs to return event search results to a user.

Application deployed using github pages and built using HTML, CSS, Bulma, JavaScript, jQuery, and Moment.

Role focused on back-end functionality to ensure smooth user experience and efficiency. Cleaned up code to improve legibility, grouped similar functional lines of code into callable functions, and continually identified and solved errors to ensure viability of product.

Your Coffee Tracker
MERN SPA Project
https://github.com/Jiyeon31/your-coffee-tracker || https://yakattak-coffee1.herokuapp.com/

Facilitated as team leader the development of a web application deployed to Heroku where users can keep track of and rate their favorite coffee. Also utilized service-workers to offer PWA offline functionality.

React, GraphQL, Node.js, Express.js, MongoDb, Mongoose ODM, HTML, Webpack, JavaScript, CSS.

Focused on building back-end models and resolvers, and front-end page functionality including mutations, queries, and SPA rendering. Performed continuous trouble-shooting to identify and fix issues.

EXPERIENCE

Metallic Materials Lead Engineer
GE Aviation || Lynn, MA || February 2022 - Present

Facilitated problem solving through proactive outreach to engineering teams and vendors - often taking the lead in developing and timelining a plan of action. Provided guidance to multidisciplinary teams through material evaluations and application of technical specifications

Applied APQP and Lean process to ensure long term quality and sustainability of next generation engines.

Physics and Engineering Teacher
Hoosick Falls High School || Hoosick Falls, NY || 2015 - Present

Emphasized importance of analytical thinking, especially as applied to creating experiments, collecting data, and using results to draw conclusions consistent with data and known theories.

Topics taught included: materials characterization, crystal structures, phase diagrams, stress-strain curves, engineering statics, kinematics, electromagnetism, waves, introduction to Java and Python, and CAD.

Undergraduate Research Assistant
Materials Department, RPI || Troy NY || 2008

Using Python combined the phase field model with a finite volume partial differential equations solver to conduct computational modeling of the growth of a solid from a binary solution.

Investigated the effects of temperature, solution and substrate composition, and impurities on particle growth.

EDUCATION

Certificate of Completion in Full Stack Web Development
Columbia Engineering Coding Boot Camp

Master of Science (MS) in Materials Engineering
Rensselaer Polytechnic Institute (RPI), Troy, NY

Master of Arts in Teaching (MAT) ***Physics***
Union Graduate College, Schenectady, NY

Bachelor of Science (BS) Materials Engineering
Rensselaer Polytechnic Institute (RPI), Troy, NY