

Charles Tucker Barrett

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Website: <https://tucker.tech> | **GitHub:** <https://github.com/GrinninBarrett>

Software Engineer

Software Engineer experienced in building responsive, accessible web applications and software. Expertise in multiple programming languages combined with business know-how. Experienced working on collaborative teams, spontaneous problem solving, and devising creative approaches to difficult challenges. Detailed, thorough, and able to meet deadlines in demanding and fast-paced environments. Quick learner with excellent communication skills.

TECHNICAL SKILLS

JavaScript ▪ C#/.NET ▪ React ▪ Express ▪ Node.js ▪ SQL (MySQL, Sequelize) ▪ NoSQL (MongoDB, Mongoose) ▪
API (RESTful, GraphQL) ▪ Object Oriented Programming (OOP) ▪ Deployment (Heroku, Netlify, GitHub Pages) ▪
CSS Libraries (Bootstrap, Bulma) ▪ Insomnia/Postman ▪ Git/GitHub ▪ Scrum/Agile ▪ Jira ▪ HTML/CSS ▪
JSON ▪ jQuery ▪ Handlebars ▪ VSCode ▪ Salesforce ▪ Apex ▪ Lightning Web Components ▪ OmniStudio
Familiarity: TypeScript ▪ React Native ▪ Expo ▪ Testing (Jest) ▪ Figma ▪ Svelte ▪ Python

PROFESSIONAL EXPERIENCE

Software Engineer | Optimyl Benefits | 2023 – present

Build and enhance user experiences on the Salesforce platform, empowering users to efficiently quote, underwrite, and enroll small businesses in health insurance benefits for their employees. Collaborate in an integrated .NET environment to connect Salesforce with multiple external APIs, optimizing the health quoting process and improving operational efficiency. Leverage Azure for deployment, monitoring, and database storage to ensure scalability and reliability.

- ▶ Regularly refactor and improve existing code to ensure improved maintainability.
- ▶ Collaborate with development team to develop, test, and release features across multiple environments.
- ▶ Contributed to the design and development of an industry-leading Health Questionnaire for insurance enrollment.

Associate Technical Consultant | Salesforce | 2022 – 2023

Designed and delivered customized solutions for clients using the Salesforce platform at all levels of the stack, including Apex, Lightning Web Components, and OmniStudio components such as OmniScripts, Integration Procedures, and Data Raptors. Collaborated with project stakeholders on ideal application designs.

- ▶ Created a robust Salesforce application that enables large manufacturing companies to apply for grant funding.
- ▶ Developed a successful proof of concept for an insurance quoting application utilizing Agile development practices, OmniStudio components, Flow, and Decision Matrices to quickly build the application.
- ▶ **Salesforce Certifications:** Certified Administrator, Certified Platform App Builder, Certified OmniStudio Developer, Certified OmniStudio Consultant, Certified Associate, Vlocity Health Quoting

Senior Tutor / Teaching Assistant, Full Stack Web Development | 2U | 2022 – 2024

Teach and mentor students in web development technologies in small-group and individual settings. Instruct students on development best practices and strategies through a project-based curriculum focused on JavaScript, React, Node.js, SQL, MongoDB, and RESTful and GraphQL APIs. Assist students with planning, designing, and starting web applications, as well as debugging and improving existing code.

- ▶ Guided students through the debugging process and use of React documentation to find an application solution, resulting in higher project grades.
- ▶ Reviewed RESTful API design with a student to illustrate and utilize different HTTP methods and provided sources for further study, yielding a highly scored project.
- ▶ Coached a student group through the process of debugging their web application, provided step-by-step instructions and examples, and mentored their successful project demonstration.

Specialist | Apple, Raleigh, NC | 2021 – 2022

Delivered personalized product and service solutions to new Apple product users, solved customer technical issues, and ensured customers accessed the maximum potential of their devices.

- Earned a 5/5 Net Promoter Score from customer feedback over multiple months for personalized guidance of Apple products and features.
- Attached the AppleCare+ Protection Plan to 100% of iPhone sales over multiple months by demonstrating program benefits.
- Employed methodical troubleshooting techniques to solve technical issues for customers.

SELECTED PROJECTS

Coinbull | <https://coinbull.herokuapp.com/> | MERN Stack, GraphQL, Heroku

Full stack web application to track cryptocurrency information.

- Utilized React to build a modular front end architecture to ensure maximum efficiency and update the DOM with data from multiple external cryptocurrency APIs.
- Implemented a GraphQL API alongside a MongoDB/Mongoose back end to store and query user data.

Book Search Engine | <https://ctb-book-search.herokuapp.com/> | MERN Stack, GraphQL, Heroku

Full stack web application to search for and save books.

- Refactored an existing REST API to use GraphQL to query and mutate data.

Weather Dashboard | <https://grinninbarrett.github.io/weather-dashboard/> | JavaScript, HTML, CSS

Utilizes OpenWeather API to gather weather by city name.

- Saves users' search history in local storage for quick and efficient future searches.
- Employs CSS Flexbox to create a responsive layout for a quality user experience on any device.

Etch-a-Sketch | <https://grinninbarrett.github.io/etch-a-sketch/> | JavaScript, HTML, CSS

Pixel drawing canvas based on the famous Etch-a-Sketch.

- Manipulates the DOM using JavaScript, allowing users to customize various aspects of the canvas.
- Utilizes CSS Flexbox to create a responsive layout, though drawing is best experienced on desktop.

EARLY CAREER

Music Teacher | South Harnett Elementary School, Bunnlevel, NC | 2019 – 2021

ESL Teacher | VIPKid | 2018 – 2021

Kindergarten/ESL Teacher | Worwick Franklin Institute, Ulsan, South Korea | 2015 – 2018

Native English Teacher | Ulsan Metropolitan Office of Education, Ulsan, South Korea | 2014 – 2015

EDUCATION & LEADERSHIP

Certificate, JavaScript Full Stack Web Development | University of North Carolina - Chapel Hill, Chapel Hill, NC

Certificate, Introduction to Computer Science & Programming using Python | MITx

Certificate, Responsive Web Design | freeCodeCamp

Bachelor of Music Education with Horn Performance Certificate | University of South Carolina, Columbia, SC

President | Phi Mu Alpha Sinfonia, Delta Sigma Chapter, Columbia, SC

Drum Major | USC Marching Band

Eagle Scout | Boy Scouts of America