Charles Tucker Barrett

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Summary

Full stack developer with a previous career in music education. Experienced working on collaborative teams, spontaneous problem-solving, and devising creative approaches to difficult situations. Possess a Full Stack Web Development certificate and have a genuine love for technology and the arts.

Technical Skills

JavaScript (ES6+), TypeScript, React, React Native, Expo, Express, Node.js, SQL (MySQL, Sequelize), NoSQL (MongoDB, Mongoose), API (RESTful, GraphQL), Object Oriented Programming (OOP), Testing (Jest), Deployment (Heroku, Netlify), CSS Libraries (Bootstrap, Bulma), Insomnia/Postman, Git/GitHub, Scrum/Agile, Jira, Figma, HTML/CSS

Salesforce: Apex, LWC, OmniStudio

Experience

Associate Technical Consultant - *Salesforce* - (May 2022 - present)
- Deliver customized solutions to clients using the Salesforce platform at all levels of the stack, including technologies like Apex, Lightning Web Components, and OmniStudio.
- Leverage OmniStudio components such OmniScripts, Integration Procedures, and DataRaptors alongside custom Apex classes and Lightning Web Components to create a robust application that empowers large manufacturing companies to apply for grant funding.
- Confer with project stakeholders to help determine the most appropriate application design choices.

Senior Tutor / Teaching Assistant - *2U* - (January 2022 - present)
- Guide students in their learning of web development technologies in small group and individual formats.
- Instruct students on development best practices and strategies in a project-based curriculum with a focus on JavaScript, Node.js, React, SQL, MongoDB, and RESTful and GraphQL APIs.
- Assist students with planning, designing, and getting started on their web applications, as well as debugging and improving existing code.
- Empower students to be confident, skilled debuggers, and to be more self-guided post-bootcamp.

Specialist - *Apple* - (2021 - 2022)
- Utilized thorough product knowledge to provide personalized solutions for new Apple product owners.
- Employed methodical troubleshooting techniques to solve technical issues for customers.
- Educated customers on how to get the most out of their products.

ESL Teacher - *VIPKid* - (2018 - 2021)
- Executed engaging virtual lessons to capture and retain the attention of students aged 4-16.
- Maintained a nearly 100% rebooking rate - 100% 5/5 star-rated teacher.
- Managed relationships with students and parents, grew strong rapport.

Music Teacher - *South Harnett Elementary School, Bunnlevel, NC* - (2019 - 2021)
- Developed and implemented a comprehensive music curriculum for grades 1-5 and K-5 special needs.
- Planned and executed successful performances, ensuring students' personal and musical growth.
- Adjusted my curriculum to be accessible from anywhere after the outbreak of COVID-19.

Kindergarten/ESL Teacher - *Worwick Franklin Institute, Ulsan, South Korea* - (2015 - 2018)
- As a founding teacher of the academy, established a complete kindergarten curriculum with a focus on ESL education in an English immersion environment.
- Contributed to a nearly 200% increase in enrollment after my first year.
- Bridged language and cultural divides to collaborate with Korean coworkers.

Projects

CoinBull | https://coinbull.herokuapp.com/
- Full stack web application to track cryptocurrency information | **MERN stack, GraphQL, Heroku**
- 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.
- Repository: https://github.com/GrinninBarrett/CoinBull

Book Search Engine | https://ctb-book-search.herokuapp.com/
- Full stack web application to search for and save books | **MERN stack, GraphQL, Heroku**
- Refactored an existing REST API to instead use GraphQL to query and mutate data.
- Repository: https://github.com/GrinninBarrett/book-search-engine

Weather Dashboard | https://grinninbarrett.github.io/weather-dashboard/
- Utilizes OpenWeather API to gather weather data by city name | **JavaScript, HTML, CSS**
- Saves user's 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
- Repository: https://github.com/GrinninBarrett/weather-dashboard

Skillet & Shaker | https://grinninbarrett.github.io/recipe-finder
- Uses recipe APIs to find food and drink recipes based on user criteria | **JavaScript, HTML, CSS**
- Leveraged "vanilla" JavaScript, HTML, and the Bulma CSS library to create a fast, seamless user experience.
- Utilizes local storage to allow users to save their favorite recipes for future reference.
- Repository: https://github.com/grinninbarrett/recipe-finder

Etch-a-Sketch | https://grinninbarrett.github.io/etch-a-sketch
- Drawing canvas based on the famous Etch-a-Sketch | **JavaScript, HTML, CSS**
- Manipulates the DOM using JavaScript, allowing users to customize various aspects of the drawing canvas, such as color and pixel density.
- Employs CSS Flexbox to create a responsive layout so as to be usable on any device.
- Repository: https://github.com/grinninbarrett/etch-a-sketch

Wasted Class Time | https://grinninbarrett.github.io/wasted-class-time/
- Timer to calculate percentage of class wasted by poor student behavior | **JavaScript, HTML, CSS**
- Leveraged JavaScript to perform calculations based on the timer and user-entered class time.
- Repository: https://github.com/GrinninBarrett/wasted-class-time

Leadership / Honors

- President, Phi Mu Alpha Sinfonia, Delta Sigma Chapter, Columbia, SC - 2010 - 2011
- Drum Major, USC Marching Band, Columbia, SC - 2009 - 2010
- Eagle Scout, Boy Scouts of America, Troop 222, Abingdon, VA

Certificates / Certifications

- Certified Administrator, **Salesforce**
- Certified Platform App Builder, **Salesforce**
- Certified OmniStudio Developer, **Salesforce**
- Certified OmniStudio Consultant, **Salesforce**
- Introduction to Computer Science and Programming Using Python, **MITx**
- Responsive Web Design, **freeCodeCamp**

Education

University of North Carolina - Chapel Hill, Chapel Hill, NC - 2021
Certificate - JavaScript Full Stack Web Development

University of South Carolina, Columbia, SC - 2012
Bachelor of Music Education with Horn Performance Certificate