James Carr, P.E.

Software Engineer

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TECHNICAL SKILLS

Responsive Web Development, Project Management, JavaScript, React, React Hooks, Python, REST APIs, Webpack, JSON, XML, AJAX, npm/yarn, HTML, CSS, Bootstrap, Material UI, Git, GitHub, Version Control, VSCode, Accessibility, SQL, Bash Command Line, Figma, Presentations and Speaking, Netlify

EXPERIENCE

Skyman Studios, Inc. — *Owner/ Product Manager* – *JUNE 2017 - PRESENT*

Created a cross-platform real time mobile game. Programmed in C# and using all original ideas and characters. Game offers in-app purchases and paid advertisements. Initiated sales and marketing activities to increase brand awareness and grow customer base for initial product launch date.

- Available on iOS and Android Platforms – *TALOS: Brawl Masters*
- https://apps.apple.com/us/app/talos-brawl-masters/id1316313000
- Successfully achieved 30,000+ unique users since launch

Civil Engineer

CEDARVILLE Engineering —*Project Manager* – *JUNE 2020 - FEB 2022*
Edward B. Walsh Associates — *Project Manager* – *APR 2015 - APR 2018*
NMP Engineering — *Water Resources Engineer* – *SEPT 2013 - APR 2015*
Advance Testing — *Engineering Technician* – *JUNE 2012 - DEC 2012 (intern)*

Manage complex civil engineering projects through completion. Coordinate directly with project owners, municipal officials, agency reviewers, design teams, and other engineering consultants managing all aspects of a project from design through construction. Additional activities include business development, proposal writing, managing budgets, running meetings, QA/QC, technical plan review, calculations and reports, and technical presentations.

- Driving projects through completion on time and under budget
- Leading the engineering design team and construction personnel

Bentley Systems, Inc. — *Sales Engineer* – *MAR 2018 – JUNE 2020*

*Exceeded sales quotas and increased industry awareness of civil and bridge engineering software. P*articipate in regular business development and sales activities; building a strong customer rapport and in-depth comprehension of client needs to successfully close software purchases, subscriptions, and services. Develop and launch strategic sales campaigns to educate and emphasize business value to a large volume of potential leads in short periods of time.

- Exceeded $1.6 Million 2018 quota at 120% and $2.3 Million 2019 quota at 108%

EDUCATION

Pennsylvania State University, University Park — *Civil Engineering*

SEPT 2008 – MAY 2013

CERTIFICATIONS

IT Support Professional – Google Certification

Network protocols, cloud computing, Windows operating system, Linux command line, systems administration, encryption algorithms and techniques. Troubleshooting, customer service, networking, operating systems, and security.

JavaScript Algorithms and Data Structures - freeCodeCamp 300 hours of Coursework

Responsive Web Design - freeCodeCamp 300 hours of Coursework

Front-End Web UI Frameworks and Tools: Bootstrap 4 – Hong Kong University create restaurant website using HTML, CSS, Sass, jQuery, and Bootstrap

Introduction to SQL – Rice University create MySQL Database. Database design with tables, foreign keys, and many-to-many relationships

Interactive Programming in Python (Part 1 and 2) – Rice University learn about programming concepts to build interactive and logic-based games such as Blackjack, Asteroids, Rock Paper Scissors

Professional Engineer (P.E.) – PA & MD licensed Civil Engineer

Nonprofit Board Leadership – Comprehensive Training with Leadership Chester County and the United Way

PROJECTS

TALOS: Brawl Masters — *Real time platform fighter mobile game, character design, event management, performance analytics, company website, iOS analytics, Game Center awards*

Meme Generator — *The application connects to the top 100 meme images API and allows the user to type text over the picture and create their very own meme. The application utilizes Props and the useState and useRef React hooks. The user can also upload their own image and export the image using the html-to-image node module which generates an image from a DOM node using HTML5 Canvas*

To-Do List — *Web application created with the useState React Hook. The user can add and delete to-do list items seamlessly*

Asteroids — *Classic Arcade style game. Utilizes collisions, dictionaries, image manipulation, splash screens, score tracker, fluid game play and interactivity*

Matching Game — Interactive *game where the object of the game is to find the picture that does not belong. Utilize random number generator for unique turn each time*

Ristorante Website (Front-end) — *Design a responsive website using the bootstrap framework for a pizza restaurant. Create About Page, Order Form, Photo Slider, Contact Us, Social Media website links, Log-in Modal*

Blackjack — *Play against CPU, Closest to 21 without going over wins*