Char Tai

Chicago, IL 60641 | 240-753-2013 | char@tchartchke.com | GitHub: tchartchke | Web: tchartchke.com | LinkedIn: chartai

PROFILE

Highly motivated engineer with experience working in a variety of environments. Developed strong collaboration and creative problem-solving skills through working in dichotomous industries. Seeking to leverage a plethora of abilities and interests to grow personal and professional expertise, and effectively contribute to innovative projects as a developer.

SKILLS

Technical: JavaScript (ES6), React, Redux, Ruby, Rails, Postgres, SQL, HTML, CSS/SCSS, Excel, Java
Non Technical: Communication, Flexibility, Collaboration, Independent and Detail-Oriented Thinking
Languages: English (Fluent), Mandarin (Conversational), Japanese (Intermediate)

TECHNICAL PROJECTS

Six-Clicks - Github | Demo
Travel from one Wikipedia article to another in the least number of clicks possible
- Employed a JavaScript/React/Redux frontend for game progress display and management
- Utilised Rails API to handle the data persistence with a database
- Communicated with MediaWiki Action API to embed and track Wikipedia article with the app

Pummel - Github | Demo
Like with Whack-a-Mole, pummel the monsters on the grid to gain points
- Integrated JavaScript frontend with Rails backend, building a single page application with asynchronous interactions
- Designed and wrote game logic using Object Oriented JavaScript to encapsulate data and behavior
- Manipulated CSS styling through JavaScript, improving interactivity and playability

TriviChar - Github | Demo
Create and publish quizzes for friends, and do trivia made by other users
- Built a complete Ruby on Rails application that manages related data through complex forms and RESTful routes
- Enabled secure authentication using password hashing functions to personalize user experiences
- Developed UI from scratch and through the use of CSS frameworks

EMPLOYMENT HISTORY

II-VI EpiWorks   Champaign, Illinois
Epitaxy Engineer   Jun 2015 - Jun 2019
- Optimized and sustained epitaxial growth in MOCVD tools to ensure products meet customer specifications
- Devised and recorded growth processes for the purpose of replicating consistent results in manufacturing products

NON TECHNICAL EXPERIENCE

Circus Arts Performer   Chicago, Illinois
Contortion, Aerial Hoop, Dance Ensemble   2017 - Present
- Choreographed and performed solo and ensemble acts in a variety of cabaret style shows to entertain audiences
- Organized gigs and events, coordinating with event sponsors to comply with the expectations of clients

Fitness Instructor   Champaign and Chicago, Illinois
Flexibility, Pole Dance Fitness, Aerial Arts   2016 - Present
- Mentored students on safe and proper technique to perform a multitude of physical skills
- Created individualized learning conditions that allowed students to reach and maintain their personal goals

EDUCATION AND TRAINING

Flatiron School   Chicago, Illinois
Full Stack Web Development, Ruby on Rails and JavaScript program   Sep 2020 - Jul 2021

University of Illinois   Urbana-Champaign, Illinois
Bachelor of Science in Electrical Engineering   Aug 2010 - Dec 2014
- 2011 - 2012 Yokohama National University: Student Exchange