CONNOR C. HENDERSON   SOFTWARE ENGINEER

203-858-4152   ConnorCHenderson9@gmail.com   Portfolio   LinkedIn   Github

SKILLS

Server: Sequelize, SQL, PostgreSQL, SQLAlchemy - **Tools**: Flask, Heroku, Git, APIs, Docker, Excel, Linux, AWS3

Frontend: React.js, Redux, Vanilla JS, Pug, Jinja2, HTTP, HTML5, CSS3 - **Backend**: Python3, Node.js/Express.js

TECHNICAL EXPERIENCE & PROJECTS

Board Games - *Solo Project | (React/Redux, Flask, SQLAlchemy, Alembic, PostgreSQL)*   **live** | **github**
Full-stack app built from scratch for playing Chess, Go, Sudoku, and visualizing the "Game of Life" cellular automaton
- Wrote functions that determine successive "generations" and enable flexible preset filling for Game of Life
- Constrained the chess pieces' moves in accordance with the rules using functions that analyze the game's 2D array
- Implemented pattern-recognition algorithms for Go that remove stones, form territories, and update the scores
- Created CPUs for Chess and Go that play aggressively, autonomously, and in accordance with each game's rules
- Integrated user scores with the backend that update on game wins and are displayed on respective leaderboards

Coastal Camper - *Solo Project | (React, Redux, Express, API-Integration, Sequelize, PostgreSQL, AWS3)*   **live** | **github**
Full-stack clone of HipCamp with a focus on surfing destinations
- Implemented full CRUD functionality for hosted locations, bookings, and reviews, including concurrent date selection for bookings and AWS3 integration for location photo uploads
- Integrated third-party APIs to display locations geographically and provide 7-day forecasts for each location
- Wrote locations search feature that queries the PostgreSQL database with Sequelize commands

History Quora - *Group Project | (Vanilla JS, Pug, Express, Sequelize, PostgreSQL)*   **live** | **github**
Full-stack clone of Quora with a focus on history topics
- Led project as SCRUM leader for 50+ hour sprint
- Detailed the database schema, frontend routes and API documentation
- Led the implementation of full CRUD functionality for questions, answers, and comments from front to back

EDUCATION

AppAcademy - ***Full Stack Software Engineering***   Feb 2021 - July 2021
- **1000+** hours intensive, web development program, including pair programming and live technical instruction, **98%** average on weekly exams. Relevant coursework includes: Object Oriented Programming (OOP), Test Driven Development (TDD), Data Structures, Algorithms, Systems Design & Architecture, Coding Best Practices
- Curriculum pairs CS fundamentals with multiple modern web development tools, frameworks, and languages

Duke University - *BA Public Policy, BA2 Chinese, Minor in Economics*   Aug 2015 - May 2019
- **3.64** GPA | 2019 Fall Dean's List | Duke Business Society, Bass Connections

Deerfield Academy - *High School diploma*   Sep 2011 - June 2015
- **4x** Honor Roll | AP Scholar | ACT: **35** (99th percentile)

WORK EXPERIENCE

L.E.K. Consulting - *Associate*   Oct 2019 - Feb 2021
- Collaborated with teams of **6-8** colleagues at **3%** acceptance rate firm to advise **13+** clients' management teams on growth strategy, M&A due diligence, and market assessments across a variety of industries, including Technology
- Executed critical work streams including primary and secondary research campaigns, data analysis, survey writing and analysis, market modeling and deliverable development

Select Case Experience
- Completed a diligence assessment of a multinational oilfield chemicals provider for one of the largest ever mergers in the space in a multi-billion dollar deal
- Determined an optimal growth strategy for a large commercial cleaning services provider targeting 20% annual revenue growth, profit margin expansion, and valuation multiple enhancement over the next three years
- Performed commercial due diligence and assessed growth opportunities for leading software providers across several industries, including Healthcare Analytics and Risk Management