

CONNOR C. HENDERSON

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SOFTWARE ENGINEER

[Portfolio](#)

[LinkedIn](#)

[Github](#)

SKILLS

Frontend: React.js | Redux | Vanilla JS | Pug | Jinja2 | HTTP | HTML5 | CSS3

Backend: Python3 | Node.js/Express.js

Server: Sequelize | SQL | PostgreSQL | SQLAlchemy

Languages: JavaScript | Python

Other Tools: Flask | Heroku | Git | APIs | Docker | Excel | Linux | AWS S3

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 **JavaScript** functions that determine successive "generations" and enable flexible preset filling for Game of Life
- Constrained chess pieces' moves properly using functions that interact with the 2D array game state **React** variable
- 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 **Flask** backend, updating on game wins and displaying 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 **AWS S3** 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, organizing **Git workflow** and task assignment
- Detailed the **database schema** and **REST API** documentation to ensure team alignment and proper implementation
- 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