

CONTACT

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CHELSEA SPANGLER

FULL-STACK SOFTWARE ENGINEER

TECH STACK

LANGUAGES:

JavaScript (ES10), HTML5, CSS3

FRONT END:

React, Redux, React Native

BACK END:

Node, Express

DATABASES:

MongoDB, PostgreSQL, AirTable

TEST SUITES:

JUnit, Jest, Enzyme

TOOLS:

Git, GitHub, VS Code, TravisCI, NodeCI, Expo, Heroku, Netlify, Postman, Jira, Trello, Slack

EDUCATION

ALCHEMY CODE LAB

800+ hours of advanced full-stack JavaScript software development instruction and experience

AMERICAN UNIVERSITY SCHOOL OF INTERNATIONAL SERVICE

Master of Arts
Global Environmental Policy

UNIVERSITY OF CALIFORNIA AT BERKELEY

Master of Arts
Ethnomusicology

WARTBURG COLLEGE

Bachelor of Arts
Music

ABOUT

Software Engineer with a passion for using technology to solve global problems. I approach challenges with creativity, empathy, and humor, relying on over a decade of professional experience including project management, teaching, writing, and public speaking. I'm committed to maintaining a team environment where everyone feels valued and excited to contribute their best ideas.

HIGHLIGHTED PROJECTS

SAFE PLACE FOR YOUTH

<https://github.com/orgs/safe-place-for-youth/dashboard>

This mobile app won the 2020 Tech Association of Oregon hackathon. Our team of three designed and prototyped the React Native app to connect youth experiencing homelessness with nearby safe places they can go. My primary contributions were implementing an AirTable no-code database, using geolocation data to sort places based on the user's location, and extracting reusable React hooks to make our codebase more modular.

GOING VIRAL: PANDEMIC-RELATED MOBILITY METRICS

<https://github.com/orgs/Sew-Organized/dashboard>

Going Viral creates dynamic, interactive data visualizations to compare COVID-19 statistics to global changes in people's travel habits. In a one-week sprint, my team built an API with Node, Express, and MongoDB, and used D3, React, and Redux for the front end. I worked primarily on the API, unit testing, and Redux state management.

SOCIAL DISTANCE-PING

<https://github.com/Alchemy-Covid-19/covid-19-statbot>

Web app that texts users current COVID-19 stats for any US state. Ping was built in Node.js using Express, MongoDB, and Heroku, leveraging web scraping with a headless browser, scheduled scripts, and Twilio. My primary solo contribution was writing routes to allow users to request on-demand SMS with location-specific stats.

SEW ORGANIZED

<https://github.com/orgs/Sew-Organized/dashboard>

<https://sew-organized.herokuapp.com>

Sew Organized was designed to help crafters keep track of their supplies. Data was scraped from a CSV file and a third-party API. React.js front end, Node.js/Express back end, PostgreSQL database. Much of the app was mob-programmed, but I solo-coded the detail page and color-matching algorithm.

CORE PROFESSIONAL COMPETENCIES

Leadership: I have led teams on projects that span years, and teams that came together just long enough to complete a 4-day sprint. I always start with a clear communication plan, and consistently check in to ensure team cohesion.

Communication: I tailor information to suit any intended audience, whether I'm pitching an idea to a federal agency, writing technical documentation, summarizing a feature for a non-technical audience, or explaining a process to my team.

Problem Solving: I have worked through crises ranging from remote team sprints during a global pandemic, to project objectives changing at the last minute, to disruptive team members. There is always a solution.

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CHELSEA SPANGLER

COMMUNITY ENGAGEMENT

HARDANGER FIDDLE ASSOCIATION OF AMERICA | Director | 2011 - 2018

I spent a wonderful seven years on the board of this international organization promoting the Norwegian national instrument. My main responsibilities were planning an annual educational workshop and distributing a quarterly newsletter.

CITY OF PORTLAND URBAN FORESTRY | Team Lead | 2018 - Present

A few weekends every summer I teach volunteers how to identify, measure, and map trees in Portland's parks. This data helps Urban Forestry track the health of our urban canopy and prioritize which neighborhoods need more trees to support public health.

WHAT PEOPLE SAY ABOUT ME

"You are a natural leader and so technically savvy. You have a dazzling ability to create a clear vision, organize around that vision, and construct code to build your vision. Remarkable!"

-former instructor

"Chelsea is a unique blend of fortitude, grace and humor. She continually impresses me with her even-keeled tenacity in completing difficult tasks under pressure."

-dev project teammate

"If you make one more pun, I may have to divorce you."

-spouse

PROFESSIONAL HIGHLIGHTS

WATER STEWARDSHIP PROJECT MANAGER | BONNEVILLE ENVIRONMENTAL FOUNDATION | 2018 - 2019

- Organization: Improved data management systems and made them more accessible across teams, eliminating processes where teams were duplicating each other's work
- Outreach: Designed and implemented a company-wide social media strategy from scratch, and consistently generated relevant content

WATER AND SECURITY SPECIALIST | WORLD WILDLIFE FUND | 2016 - 2017

- Consensus building: Developed and maintained relationships with federal agencies, other nonprofits, and academic institutions to coordinate efforts to challenge U.S. policy on climate change and issues of homeland security
- Attention to detail: Edited a book with more than 20 contributing authors to ensure quality and consistency to style guide
- Written communication: Wrote a chapter intended for policy experts, as well as chapter summaries for non-expert audiences

SUPPLY CHAIN ANALYST | WORLD WILDLIFE FUND | 2016

- Risk assessment: Performed supply chain risk assessments for corporate partner clients
- Efficiency: Generated data-driven best management practice guides to help companies streamline supply chains to save money and environmental resources
- Research: Analyzed data from diverse sources, including geospatial data, government agency databases, and risk analysis tools

HUMAN RIGHTS LEARNING PROJECT CONSULTANT | AMERICAN FRIENDS SERVICE COMMITTEE | 2015

- Management: Led a three-person team to conduct a full evaluation of the program's efficacy over the prior three years
- Project design: Created a data collection and analysis plan and delegated roles to carry it out
- Stakeholder engagement: Reached out to former teachers and students to understand their experiences and priorities for the program

DC POLICY INTERN | SOUTHERN UTAH WILDERNESS ALLIANCE | 2014

- Reliability: Compiled and distributed a daily newsletter to hundreds of subscribers nationwide
- Tenacity: Lobbied congressional offices, many of which were directly opposed to our mission