

Daniel Shapiro

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github: github.com/shapirodaniel | portfolio: shapirodaniel.github.io/portfolio

EXPERIENCE

Avanade, Consultant / Full Stack Development, Chicago, IL (100% Remote) **July 2021 – Present**

- Key consultant on migrating Azure ARM template-backed DevOps pipelines to GitHub Actions
- Accenture CIO Intelligent Cloud Network consultant, building DevOps pipelines with Terraform, PowerShell, ARM templates, and Azure blueprints
- Present forward analysis on Node.js and Deno to Software Engineering Talent Community
- Research and apply design patterns best practices for highly decoupled microservices architectures using C# / .NET / Azure Service Bus / RabbitMQ / AKS (Kubernetes) / gRPC
- Build functional, component-driven architectures with React and OOP-driven Angular front-ends

Fullstack Academy, Teaching Fellow, New York, NY (100% Remote) **April 2021 – Present**

- Serve as Tech Lead to student teams learning full stack web application development using RESTful architecture built on Node.js/Express + SequelizeORM + PostgreSQL backend and React/Redux frontend, with feature-based branching Git workflow and Test-Driven Development supported by Mocha, Chai, Enzyme, and Jest
- Teach data structures and algorithm lessons for technical interview prep, topics including: Space-Time Complexity Analysis, Stacks, Queues, Linked Lists and A-lists, Hash maps, Trees, Graphs, Sort routines (Bubble, Insert, Merge, Quick), Pointer-based Optimization, Memoization, and Search
- Lead daily stand-up and weekly code reviews as Project Manager for student team Agile workflows
- Navigate project teams through deployment, OAuth, and CI/CD pipelines using Heroku, Passport, JWT-based authentication, and Travis-CI
- Conduct technical interviews in JavaScript for admissions candidates
- Develop and lead [a new project-based React Hooks workshop](#) (watch an excerpt [here](#))

West Town Bakery, Head Bread Baker, Chicago, IL **September 2019 – June 2020**

- Built a mobile UI/UX for recipe management backed by a custom formula-embedded CSV generator for sub-recipe control; open-sourced: breadbakersfriend.com | github.com/shapirodaniel/breadbakersfriend

SOFTWARE PROJECTS

Connect | May 2021 | github.com/shapirodaniel/connect | connect-kanban.herokuapp.com

Brief Description: Organization-based project management with Kanban-style boards

Technologies Used: React, Redux/Context, React Router, Styled Components, Node.js + Express, SequelizeORM + PostgreSQL

- Implemented major features including: drag-and-drop project board with realtime socket updates, markdown-enabled task body, realtime chat/comments, front-end user organization-invitation system, task assignment system with custom select dropdown
- Refactored database schema and backend REST implementation to minimize logic exposed in Express routes and transfer business logic to Sequelize class/instance methods
- Wrote database seed routines to enable site-wide Test-Driven Development
- Enabled Google APIs and Google OAuth for user authentication and in-app Google Drive access
- Deployed to Heroku and setup CI/CD pipeline with Travis-CI

OpenWeather Mobile | June 2021 | github.com/shapirodaniel/weather-app | tinyurl.com/openweather-app

Brief Description: Mobile-friendly weather dashboard and mocked Google Places API for US search

Technologies Used: React + Context, Styled Components, Swipeable Views, OpenWeather OneCall + Geocoding APIs, Azure Functions Serverless Compute

- Constructed a reusable custom swipe carousel using the Higher-Order Component pattern
- Wrote custom OpenWeather OneCall parsers and accompanying TypeScript interfaces to be released as a standalone package for other OpenWeather consumers
- Deployed to Azure Static Web Apps with Github Workflows

Bread Bakers Friend | Dec 2020 | github.com/shapirodaniel/breadbakersfriend | breadbakersfriend.com

Brief Description: Dynamic recipe modification tool and custom formula-embedded CSV generator

Technologies Used: HTML / CSS / Javascript

- Built out mobile-friendly storage and upload for recipe retrieval
- Created a custom CSV tool to generate formula-based recipes for offline/cloud usage

PUBLICATIONS

Geek Culture, May 2021: [Scrollable Single-Page Site Navigation with React Custom Hooks](#)

Geek Culture, April 2021: [Rebuilding an Imperatively-Coded Game from Scratch in React](#)

EDUCATION

FULLSTACK ACADEMY, New York, NY

Certificate in Full Stack Web Development, April 2021

Skills gained: JavaScript, React/Redux, Node.js/Express/Sequelize+PostgreSQL, Git, Travis-CI

UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA

Ph.D. in Music Theory and Composition, May 2019

Thesis: "Music and Natural Language Share a Model-Theoretic Syntax"