

Sean Colsen

Knoxville, TN, USA (UTC-4:00)
Pronouns: He/Him

Senior Full Stack Software Engineer

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Experience

Front End Software Engineer for Mathesar 2021 - now

Svelte TypeScript Python PostgreSQL Docker Jest Storybook Playwright

Helped build Mathesar, an open source spreadsheet/database hybrid application ♦ Worked asynchronously within a globally distributed team of 8 engineers ♦ Implemented complex interactive features with an eye towards performance and usability ♦ Led the UX design process for many core features ♦ Advised on architectural decisions and code standards

Senior Full Stack Software Engineer for Insurance Toolkits 2021 - 2021

Vue Nuxt TypeScript Python mypy Django Flask PostgreSQL Selenium

Helped build several data-focused B2B SaaS products for insurance sales agents ♦ Converted front end from Flask+Vue to Nuxt ♦ Led incremental migration to TypeScript ♦ Built back end features in Django ♦ Designed and implemented REST APIs ♦ Created a custom web-scraping system to harvest publicly-available insurance data at a large scale ♦ Found and fixed multiple security vulnerabilities

Freelance Software Developer 2016 - 2020

PHP AngularJS Javascript Symfony MySQL React Bootstrap MkDocs

Helped build CiviCRM, an open source CRM for nonprofits ♦ Funded my open source work by providing development, consulting, and support to freelance clients using CiviCRM ♦ Built a custom static site publishing system for docs.civicrm.org, and migrated 10 years of docs content into it ♦ Found and fixed many upstream security vulnerabilities

IT Manager for Bikes Not Bombs 2008 - 2016

Drupal PHP Javascript MySQL SQL Ruby Bash Linux Nginx

Handled all tech needs for this mid-sized non-profit with over 20 staff ♦ Built a mobile mapping application for a large annual fundraising bike ride ♦ Migrated fundraising database to CiviCRM and developed many customizations for it ♦ Designed and built public website

Freelance Web Developer 2007 - 2008

Wordpress Drupal PHP Symfony HTML CSS

Designed and built marketing websites for small businesses, organizations, and community groups

Personal Projects

Querydown 2023 (very early stage) Rust SQL

An expressive DSL for easily writing relational database queries which compile to SQL

Octave Compass 2020 Svelte TypeScript SVG

An interactive tool for musicians to explore scales and the chords that they contain

Education

Bachelor of Science in **Electrical Engineering**
Northeastern University, Boston (GPA 3.7/4.0)

Interests

Mountain biking, rock climbing, carpentry, mechanical keyboards, accordion