Sean Colsen | *Senior Full Stack Software Engineer*

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Pronouns: He/Him

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Experience

Software Engineer for Mathesar Foundation   2021 - now

`Svelte` `TypeScript` `Python` `Django` `PostgreSQL` `PL/pgSQL` `Docker` `Jest` `pgTAP` `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 across the stack 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 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