

Christopher Frewin

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📝 **Chris' Full Stack Blog**

in LinkedIn

🐙 **GitHub**

🏢 **Full Stack Craft LLC**



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EXPERIENCE AND MOTIVATION

I'm a senior full stack software engineer with 10+ years of programming experience, the last 7 of those professionally. I have experience in a variety of languages and frameworks including TypeScript, .NET, JavaScript, Python, Perl, React, Bash, and significant experience with many other languages (most with 3+ years).

I have completed numerous full stack software projects: automation tasks, full stack web applications, APIs, microservices, advanced CI / CD configurations, and the occasional purely-for-display website. A recent project I'm proud of is **The Wheel Screener**, which has turned out to be my first profitable solo SaaS project! A more corporate example with a previous employer (Ospelt) included the full development cycle of a logistics and goods movement app used across three warehouses and in 12+ locations. In many projects I have been the sole developer; otherwise at most a small team of 2-3 colleagues or developers assisted with determining the specific business functionality of the project.

My strengths lie in my ability to learn new design patterns and environments quickly, implementing functioning applications and programs in a timely manner, building complex software systems, and being able to find and fix bugs or undesired behavior in complex stacks.

My true passion lies in the endless endeavor that is software, consistently trying to improve my craft and educating others of my findings along the way. My blog, **Chris' Full Stack Blog**, and my **Full Stack Courses** reflect the passion I have for software engineering and education.

LIMITED LIABILITY COMPANY

Owner and Lead Full Stack Software Engineer

03/01/2020 – Present

Full Stack Craft LLC

Schenectady, NY, USA

An umbrella LLC that covers all current and future SaaS products, as well as digital content I plan to build and sell.

- **The Wheel Screener**, a market-wide options screener, tailored to finding the best trades for a specific options strategy. TypeScript React frontend with .NET API, and Netlify Identity and FaunaDB for user management. Stripe, Paypal, and Gumroad integrations for payments.
- **ReduxPlate**, a Redux code generator, doctor, and optimizer. As of June 2021, just released as an initial MVP! This SaaS product will have a stack identical to The Wheel Screener.
- **Full Stack Courses**, a variety of full stack software courses, currently including "Mastering Bitbucket Pipelines for CI and CD", "Advanced TypeScript: Generic Search, Sorting, and Filtering, and Bash Commands and Scripting - from Beginner to Expert".
- **Full Stack Blog**, my blog provides a variety of detailed walk-throughs, tutorials, and other fun software I've found throughout my career, from everything from frontend to backend. Some major topics include React, TypeScript, ABAP, .NET, and DevOps.
- **RCEST**, Untappd for coffee. A social coffee check-in, tracking, and discovery app. React Native with DevOps managed by Expo. Extensive backend microservices which use Python's Scrapy, the Google Maps and Geolocation APIs, and Puppeteer to extract data about coffees and coffee roasters. Currently available on Google Play Store, coming soon to iOS. A work in progress.

EMPLOYMENT AND PROFESSIONAL EXPERIENCE

Lead Full Stack Software Engineer

09/01/2021 – present

InClub

Küsnacht, Switzerland

Full time lead software engineer for the startup InClub.

- Building new features on the React Native mobile app, including user profiles and a full whatsapp-like chat functionality
- Building new endpoints and microservices for our .NET API
- Customizing and extending custom Angular CMS
- Building a custom static website using Gatsby, React, and TypeScript

Senior Full Stack Software Engineer

12/01/2019 – 03/03/2021

ensigra

Buchs, Switzerland

Part-time work on diverse software projects and products.

- Completed complex PHP (Magento) E-Commerce shop including full frontend styling, checkout flow, and multi-currency / internationalization support. Also included a detailed interface between Magento and SAP's ByDesign system (a batch job based SOAP XML connector, with some REST capabilities). This enabled real-time checks between the E-Commerce frontend with things like actual prices and stock in the SAP ByDesign system. Also built a rich Mailjet plugin for sending Emails from Magento via Mailjet.
- Built a React app for displaying a recursive folder tree diagram including sort / filter / search for a WebPart for a Microsoft SharePoint plugin.
- Built a Sterling Integrator XML builder microservice. Built with Node.js and Powershell scripts.
- Upgraded an entire Django E-commerce site, including all packages, which were at circa 2005 versioning levels, to 2020 standards, including bumping Python 2 to Python 3. This included building an automated CI / CD process with separate virtualenvs for both a staging (testing) and production site.

Full Stack Software Engineering

03/16/2016 – 11/31/2019

Herbert Ospelt Anstalt

Bendern, Liechtenstein

Wrote a variety of logistics automation / optimization and other productivity software.

- Created a full stack SAPUI5 app for goods entry (Wareneingang) which included label printing, weighing functionality, booking of goods across warehouses, material movements, batch issuing, and task listing.
- Created a full stack SAPUI5 app for goods production (PP Module) used at multiple workstations across multiple warehouses. Also included label printing and weighing integrations, as well as handling unit packaging.
- Created a real-time EWM SAPUI5 warehouse visualization application frontend with both a REST API and a WebSocket for real-time features. Also implemented a drag and drop interface for creating warehouse tasks. Deployed at all three of the companies major warehouses.

With all three apps I was the sole developer of both the client (SAPUI5) and server-side (ABAP) software.

Graduate Research Assistant (M.S. Thesis)

10/30/2014 – 12/19/2015

Pepiot Research Group, Mechanical Engineering, Cornell University

Ithaca, New York, United States Development of software that tracks molecular components of biofuel combustion.

- Wrote FORTRAN graph-based chemical energy calculation.
- Wrote Perl which printed runnable FORTRAN ODE calculation code.
- Data postprocessing and visualizations using Python's panda and matplotlib libraries.
- Link to publication: **“A novel atom tracking algorithm for the analysis of complex chemical kinetic networks.”**

ADDITIONAL SELECTED SOFTWARE PROJECTS

NLP Champs

First release: 11/11/2017

NLP Champs is a blog and forum with detailed how-tos and development processes of various natural language processing (NLP) techniques for software developers, DevOps, and NLP hobbyists.

<https://nlp-champs.chrisfrew.in/>

New York Historical Markers

First release: 05/30/2017

A neat weekend React.js app that renders every historical marker sign from New York State on a single page.

<https://codepen.io/galt/full/eWwdvX/>

Art Portfolio

First release: 07/06/2018

My portfolio showcasing some art and photographs that I've created.

<https://portfolio.chrisfrew.in/>

LANGUAGE CERTIFICATIONS

German Proficiency B1 - "Intermediate"

Awarded 11/18/2020

English - Native Language

EDUCATION

Cornell University, Ithaca, NY, USA.

08/22/2014 – 12/19/2015

M.S. Mechanical Engineering

Adviser: Professor Perrine Pepiot

Clarkson University, Potsdam, NY, USA.

08/27/2010 – 04/10/2014

B.S. in Mechanical Engineering with Honors and Great Distinction

Adviser: Professor Suresh Dhaniyala

Clarkson University, Potsdam, NY, USA.

08/27/2010 – 04/10/2014

B.S. in Physics with Great Distinction

Advisers: Professor David Wick, Professor Michael Ramsdell

PUBLICATIONS

Laurent, C. Frewin, and Pepiot, P. “Numerical tracers to investigate soot formation in multi-component fuel combustion” Paper presented at the 9th U.S. National Combustion Meeting, Cincinnati, Ohio

Laurent, C., Frewin, C. J., and Pepiot, P. **“A novel atom tracking algorithm for the analysis of complex chemical kinetic networks.”** Combustion and Flame 173 (2016): 387-401.

SOLE PROPRIETORSHIP

Owner and Founder of Siren Apparel

10/16/2011 – Present

Potsdam, NY, USA, Ithaca, NY, USA

Startup clothing company that donates all profits to firefighters and police officers.

Donated over \$500 so far to four different police and fire departments.

Siren Apparel has since been absorbed into Full Stack Craft LLC.

<https://sirenapparel.us>

<https://facebook.com/sirenapparel>