





DANIEL ILLENBERGER

Full-stack Software Engineer

 github.com/chillenberger

 [linkedin.com/in/daniel-illenberger-0021094b](https://www.linkedin.com/in/daniel-illenberger-0021094b)

The more challenging a problem, the more motivated I am to solve it. I have spent much of my career building proof-of-concepts and MVPs for startups and established companies. I would love to join a team of talented engineers trying to safely and effectively bring the next wave of technology to the world.

Overview

Frontend: React, Tailwind, Leptos, Sailfish, Turbo, Stimulus, Bootstrap, HTML, CSS, SCSS

Backend: Typescript, JavaScript, Node.js, Next.js, Rocket, Leptos with Server-Side Rendering

Database: PostgreSQL, SQLx

Other: AWS, software / frontend testing, technical writing, team leadership,

Employment Experience

Hyperparam Inc.

Tiburon, CA

Founding Full Stack Rust Engineer

Feb 2023 - current

Hyperparam created two projects that brought ML/AI to developers.

 [PostgresML](#)

 [Sundry](#)

- Develop new features and user interfaces (both marketing and product sides), using **Rust**, **Rocket**, **Bootstrap**, **Turbo**, and **Stimulus**. Rebuilt sites frontend to a new design, implemented teams functionality, rebuild CMS (docs and blog), and rebuilt email system to utilize **Sendgrid**, enhancing marketings control of email designs and campaigns.
- Architected efficient, reusable front-end systems optimized for high-performance web applications.
- Prototyped an LLM context provider web application with **Rust**, **Leptos**, and **Tailwind**. This was a greenfield project with a 2-month window for validating the idea.
- Lead the development of our teams functionality and guided architectural improvements.
- Prevented data loss through a clever rollout of features, scoping and testing.
- Collaborated across teams (design, operations, extension) to deliver products and mentored junior team members in my area of expertise.

Smart Warehousing

Overland Park, KS

Frontend React Engineer

July 2022 - Dec 2022

Developed products that streamlined the warehousing industry.

- Used **React Typescript** to develop web application frontends.
- Wrote software tests using **Jest**, **Mock Service Worker**, and **Storybook**.
- Performed code reviews of frontend and backend code.
- Worked in Agile team, used **Jira**, **Confluence**.
- Developed Micro Front End web applications using **Single Spa**.
- Designed and maintained frontend component library using **NPM**, **webpack**, **AWS CodeArtifact**, **Babel**, **Husky**, **Jest**, **Storybook**.
- Assisted design team in creating functional and beautiful web applications using **Figma**.

Naval Nuclear Laboratory
Senior Electrical Engineer

Milton, NY
May 2018 - September 2019

Nuclear plant instrumentation and control development and testing division.

- Participated in multi-tier testing scheme to find software issues present in new generation nuclear plant Instrumentation and Control software and hardware.
- Collaborated with team to build S1B Instrumentation and Control lab used to test software on physical components.
- Wrote and reviewed technical procedures to evaluate hardware and software performance.
- Performed tests and worked with software engineers to find and correct any hardware and software issues.
- Worked with computer tools such as DOORs, Excel, Python, remote servers and DERT system.
- Participated in work schedule planning and tasking team.

Naval Nuclear Laboratory
Nuclear Plant Engineer

Milton, NY
January 2014 - May 2018

Nuclear plant engineers are responsible for daily operation, maintenance, and testing of the Navy land based nuclear reactor, as well as daily training of Navy and civilian students in reactor operations and theory.

- Worked as shift test engineer to coordinate over 200 staff to complete a nuclear safety test over a 6-month period. We received the 2018 Team Achievement Award for our success.
- Coordinate maintenance evolutions between subcontractors, union, non-union and Navy personnel. Verified team adhered to safety standards, ensured workers were fit, ready and able to perform tasks required.
- Managed divisional leadership to train and graduate class of sixty students.
- Routinely managed team of ten people in safe operation and emergency response of land-based nuclear power plant.
- Trained US Navy nuclear operators on nuclear power plant operations, including 1-on-1 instruction.
- Acted as Sectional Supervisor of Plant Simulator.
- Utilized engineering schematics and drawings to perform troubleshooting and maintenance.

Colorado State University
Researcher

Fort Collins, CO
January 2012 - January 2014

Worked in two separate labs during this time. One I studied cold atomic plasmas and the other I studied superconductor materials.

- Designed and fabricated parts crucial to achieving superconductivity in lab cryocooler.
- Operated vacuum system to make aluminum oxide superconducting samples.
- Diagnosed and repaired lab electrical equipment.
- Programmed a simulator to model cold atomic gas expansion using Fortran.
- Completed the design and fabrication of an electrode apparatus used to study cold plasma.
- Performed material research for use in ultra-high vacuum environments.

Projects / Startups

Shipmate Box
Co-Founder & CEO

Grand Junction, CO
August 2021 – Jan 2023

Shipmate Box is building a network of home lockboxes for receiving delivery packages.

 [Shipmatebox.com](https://shipmatebox.com)

 github.com/ShipmateBox/

- Designed and built company website using **React, Heroku, GitHub**

- Designed and built product backend using **AWS S3, DynamoDB, API Gateway, IoT Core**
- Design and built product mobile app using **React Native**
- Designed and built product hardware using KiCad. Hardware functionality included solar powered, battery powered, cellular connected, NFC communication. Major components include ESP32, SIM7000, RF430
- Programmed ESP32 using **C / C++, FreeRTOS**.
- Programmed SIM7000 library and RF430 library using **C / C++**
- Throughout my tenure we planned the project, product, and marketing strategy, completed our first MVP, performed product testing, and made our first sale.
- Monitoring team progress and adjusting tasks as needed
- Choosing tools to organize tasks and communication.
- Managing team member compensation packages.
- Managed company budget and ensured company could fund operation.
- Managed market testing and product fit.

Smart-X Holdings, Inc.

Co-Founder & Dir. Electrical Engineering

**Grand Junction, CO
August 2019 – August 2021**

Smart-X was a startup company developing consumer IoT products.

 Smart-x.co

- Designed hardware using KiCad. Hardware capabilities included barcode scanning, passive and active inferred motion detection, internet access.
- Programmed all embedded software using C.
- Programmed smart hub using python and Flask library
- Programmed email scrapper proof of concept using NLTK library.
- Used REST services provided by Gmail, FedEx, USPS
- Wrote and performed testing procedures, hardware specifications, and software specifications.
- Assisting CEO in developing market analysis and product value analysis white paper.
- Performed all budgeting, forecasting, and accounting.
- Led all investor meetings.

Education

Colorado State University

Bachelor of Science in Physics – Minor in Mathematics

**Fort Collins, CO
January 2009 - December 2012**

Navy Nuclear Power School

Nuclear Plant Operations

**Charleston, SC
January 2014 - July 2014**

- Officer Curriculum
- Curriculum includes graduate-level coursework involving Thermodynamics, Mechanical & Electrical systems, Chemistry & Material Application, and Nuclear Physics.