KATIE JANZEN

Senior Software Engineer (Full-Stack)

QUALIFICATIONS

- Languages: Nix, Rust, JavaScript / TypeScript, Python, Java Frameworks: React, Redux, MUI, Node.js, Express, ViteJS, Webpack
- Databases: PostgreSQL, MongoDB / Mongoose Testing: Playwright, JUnit, Jest, Puppeteer, Supertest Web: RESTful APIs, WebSockets

CONTACT INFO

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SUMMARY

In one way or another, I've been developing software for just about as long as I can remember. I've built full-stack web applications, video games and game modifications, a command line interface for running a secret santa event, I can do it all. I'm a hard worker so if you need something done right, look no further: I'm your new developer.

EXPERIENCE 2011 - PRESENT

Senior Software Engineer, Amplify Education

2025 - Present

2022 - 2024

2024 - Present

- Front-End Developer, Take Command Health Insurance Agency Inc.

 SaaS Company offering Web Platform for Employers to manage a Health Reimbursement Arrangement for their Employees

 Built authorization architecture enforced on both backend event handler and front-end user interface to gate functionality
- unavailable based on user's permissions

 Automated synchronization of defined backend permissions to frontend removing the need to redundantly modify defined

- Developed custom Django quick action to repair damaged company records quickly and accurately
 Built backend rest API for Managing Company Records of Employees deployed to AWS Lambda
 Migrated product team's selected design system build pipeline away from Create React App (deprecated shortly thereafter) to
 ViteJS delivering superior performance and greatly improved developer experience and iteration time

OPEN SOURCE 2022 - PRESENT

Contributor, Nix Ecosystem

Purely functional package manager, package repository, and software packaging toolset for fully declarative package management and configuration

- Shared system configuration spanning personal workstations, laptops, home servers, and portable Neovim setup
- Contributed package definition to nixpkgs for tsc.nvim Neovim Plugin by dmmulroy Contributed declarative module to NixVim for vim-be-good Neovim Plugin by ThePrimeagen

2023 - Present

- Turing-complete Custom Programming Language preferring data immutability bootstrapped from Rust

 Implemented language featureset including conditional and looping control flow, lexically-scoped variables, and first-class
- Developed fully-functional Brainf*ck interpreter in the newly implemented language as sample program

INDEPENDENT VIDEO GAMES

2011 - PRESENT

2020 - 2022

- Arcade Action Game where players destroy enemy spacecraft to claim high scores

 Orchestrated a system for a dynamic soundtrack with different tracks being played depending on the ga†me state

 Integrated Juju Adams and Alynne Keith's Input library for seamless control across a wide variety of controller hardware

 Created a complex underlying weapons system shared across the player and enemy objects alike, enabling rapid prototyping of new weapons

2016

- A.C.E. A Chromatic Experience
 Puzzle Platformer where players use color to collect keys and traverse various gates to solve puzzles
 Designed level creation suite with intuitive user interface to enable creating new levels quickly, and allow players to create
- Implemented a robust control system for keyboard and controller, delivering players the freedom to change controls to fit their needs

Trapfall

2014

One on One Competitive Online Multiplayer Experience

• Built Host / Client architecture enabling players to have multiplayer matches over LAN / internet

2011

Vertical-Scrolling Arcade Shooter

Integrated Pointed Games web portal API for uploading player high scores to earn 'pointed points'

PUBLIC PRESENTATIONS

Straight from the SRC: How a Compiler Works

2022

- Talk presented as part of SingleSprout's Speaker Series

 Outlined how source code written by developers is converted into functional machine instructions

 Detailed the transformations code goes through in a compiler toolchain from tokens to abstract syntax tree to bytecode/native instructions