# Tom Betthauser

Full-Stack Software Engineer

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Yale University, MFA 2012
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I primarily work with – Python, JavaScript, React, Redux, NodeJS, Express, Flask, PostgreSQL, Heroku and Bash
Additional experience with – Rust, Lua, Ruby / Rails, Docker, MongoDB, Selenium, AWS and D3.js

## Work / Development Experience

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### Recurse Center / Fall Batch | https://www.recurse.com

September – December 2022
> studied machine learning while implementing Stable Diffusion from scratch with the Python standard library and Rust
> studied Bash/Unix, Rust and WebAssembly by working on a React-based image-processing tool for visual artists
> worked on a proof of concept GPT-3 / Stable Diffusion application as a startup pitch for OpenAI grant

### Lead Module Instructor / Full-Stack Developer

App Academy | April 2020 – August 2022
> developed and maintained software tools built with React, NodeJS, Flask, Bash, and PostgreSQL
> lead instructor for React / Flask / Express / PostgreSQL application development and Heroku deployment
> managed team of 4-6 fullstack instructors / developers and mentored hundreds of software students

### Adjunct Professor / Visiting Lecturer

College of Marin / West Valley College / Cerro Coso College / UC San Diego / San Jose State University
January 2013 – May 2019
> in addition to art / art history courses taught frontend development for student portfolios as part of visual art curriculum
> lectured in-person art history classes that regularly exceeded 100 students and ran in-person studio courses of 30-50 students
> acted as director and webmaster for on-campus gallery managing staff of 3-15 assistants and organizing 20+ exhibitions

## Personal Software Projects

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### State of the Arts Survey

https://sotasurvey.org
> an ongoing survey and data visualization project started in 2019 with 101 beta survey participants
> features 83 dynamically generated D3 data visualizations processed in real-time from a remote csv endpoint
> includes custom-built data cross-referencer capable of generating 13,612 unique data visualizations

### Page Garden

https://pagegarden.herokuapp.com
> a minimal instagram alternative built with React / Redux, Flask, PostgreSQL and deployed on Heroku
> manages user authentication and interfaces with an AWS S3 bucket for user-uploaded images

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Note – projects developed at Recurse Center will be linked on github / linkedin after program is complete