

Zachary R. Davis

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Positions

Frontend Lead, PlusMinus Agency, LA

2020 – present

GitHub, TypeScript, React, Next.js, Storybook, Chromatic, Vercel, Figma

- Leading frontend development on a modernized vendor management system for ActOne Group, an international staffing corporation.
- Meeting regularly with product manager and design team to help translate feature requests into usable specifications.
- Prototyping experimental UI concepts and assessing for feasibility and accessibility.
- Interviewing, onboarding, code-review and pair-programming with other developers. Continuous coordination with legacy backend specialist on API needs.
- Pixel-perfect translation of Figma designs into React components and Next.js app.
- Establishing testing/documentation standards for a Storybook library of 200+ components.
- Setup and maintenance of all frontend tooling, including CI/CD pipeline, GitHub/AirTable/ClickUp/Slack integrations, custom visual test overlays, and asset intake scripts.

Frontend Engineer, FuiszVideo, NYC/LA

2015 – 2016

GitHub, jQuery, React, Express, Jade, Mocha, Phantom.js, Docker

- Developed HTML/JS templates for a variety of interactive video ads, with robust performance across different devices and placement networks.
- Contributed to React/Express tool for building interactive ads and flagging in-video objects for position tracking.
- Addressed bugs, reviewed peer code, and implemented tests.
- Automated publication of ads to the MoPub marketplace using Phantom headless browser.
- Ported a Linux-based machine vision pipeline to MacOS to make debugging possible for a larger pool of developers.

Frontend Developer, Access Intelligence, NYC

2013 – 2014

PHP, JavaScript, jQuery, GreenSock, Angular, Bootstrap

- Developed a JavaScript scroll-triggered-animation framework for interactive news articles, inspired by then-recent experiments by the New York Times.
- Developed an Angular web-app for browsing and showcasing winners of a magazine-industry awards program.
- Developed an internal-use PHP/Bootstrap app for sharing documentation and streamlining project requests.

Projects

Museum Website, Museum of Us, San Diego

2022

GitHub, TypeScript, React, Next.js, Sanity CMS

- Built a statically-generated site integrated with Sanity CMS, supporting live previews and efficient incremental rebuilds.
- As compared to client's previous website, reduced hosting costs by a factor of 5. Improved Lighthouse-assessed accessibility (+9%), best practices (+17%), SEO (+8%), and performance (+45%).
- Provided consultation on visual design, content taxonomy, infrastructure and rollout strategy.

Robot Actor, New York City Players, NYC

2017 – 2018

GitHub, Python, TensorFlow, JavaScript, Raspbian Linux, Arduino/C++, electronics

- Designed and built a robot actor on rapid timeline, in parallel with client's writing and rehearsal of a new play. Robot has performed in 32 stagings in US and Europe. Play was a New York Times Critic's Pick.
- Movement and vocals cued by smartphone over a WiFi / WebSocket connection.
- Gimbal-mounted camera tracks actors via infra-red tags attached to clothing and records each performance.
- Onboard TensorFlow network generates a unique script over the course of each performance, printed on thermal paper in the play's final scene.

Additional Clients

Modu (meal-kit startup); University of Washington; Renate (exhibition-design firm), Linden Brown Architecture and De-spec (architecture firms); Deep Earth (landscape-design firm); Artspeak, American Medium and Kiria Koula (art galleries); Judd Foundation, Cady Noland, Lutz Bacher, Aaron Flint Jamison, and Alex Amini (artists)

Education

MFA, Photomedia, University of Washington, Seattle

2018 – 2020

- 4.0 GPA. Fully funded by teaching stipends and the *De Cillia Graduating With Excellence* award.
- Independently taught 2 undergraduate sections on theory and practice of digital/film photography. TA for visiting artist lecture course, liaising with 7 visiting artists and grading response papers.
- Conducted research and reported to UW Data Science office on suitability of their resources for deep-learning image generation.
- Provided web-development support for undergraduate design students.

BA, English & Art (Honors), Wesleyan University, CT

2004 – 2008

- 3.54 GPA