

# Garrett Allen

Fullstack Software Engineer

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## Technologies

JavaScript/TypeScript, React, Node.js, Redux, PHP, HTML, CSS, AWS, Docker, Python, SQL (Postgres/MySQL), NoSQL (MongoDB), SCSS, Less, Tailwind, testing (Jest)

## Experience

### Application Developer | Dev Technology Group

Jan. 2024 - present

- Ideated, proposed, and developed module extending popular JavaScript library CKEditor5 in a custom plugin, automating labor-intensive segment of content administration workflow and reducing publishing time by 20%
- Leveraged Linux and Docker to modernize local dev stack, onboarding team and creating documentation for immediate use
- Implemented responsive breadcrumb system for easy site navigation with dynamic settings for admin maintenance
- Built out reusable image and video carousel components with full responsiveness and accessibility drawing on JavaScript library Slick
- Modernized CSS across codebase leveraging Bootstrap components, managing interactions between legacy and modern frontend styling frameworks and exploiting SCSS and Less to improve readability and maintainability
- Maintained application by developing modules (PHP) and fixing bugs in the UI (React)

### Freelance Software Engineer | Sound Software

Jul. 2023 - Dec. 2024

- Designed and developed a robust PHP API to act as an intermediary between frontend and database for a large media center client, automating reservations, programming, and scheduling workflows, and improving system efficiency and reliability
- Developed a taxonomy-term migration script in PHP to process 15,000 rows into a consolidated, deduplicated taxonomy system, overcoming challenges like multilingual content handling and logging changes for improved data integrity
- Modernized database by writing PHP script to transform data strings abandoned by a legacy module into valid HTML
- Implemented bilingual English-Spanish menu and article-tagging system, ensuring accessibility for a diverse audience
- Fulfilled daily client tickets including UI bugs, API maintenance, and upgrading codebase in accordance with updated dependencies
- Migrated application from Drupal 7 to 10, building out new theme from scratch, including installing modules, creating content, content types, views, view modes, writing Twig files, custom hooks, and object-oriented CSS
- Developed company-wide internal documentation on many topics including CSS best practices, view modes, Twig templating, and environment set-up

### Software Engineer | HeyCollective (volunteer)

July 2023 - present

- Integrated OpenAI API to automate a labor-intensive workflow, processing user-submitted event data and efficiently posting structured results to the database for streamlined review
- Developed an Elixir module and LiveView to map events, integrating with HERE API for dynamic geospatial data visualization
- Executed sleek, responsive redesign of frontend using Tailwind

### Software Engineer | Docketeer: A GUI for Docker (Open Source)

Dec. 2022 - Jul. 2023

- Implemented React and React Router in TypeScript to build dynamic GUI and data visualization tool for Docker enabling users to create containers, maintain container network connections, and easily keep track of key metrics ex. CPU, memory
- Used Redux in TypeScript to create modularized slices of state, streamlining management of Docker images, containers, and networks, minimizing the need for prop drilling, and improving code readability
- Architected RESTful APIs in a Node.js/Express server to handle HTTP requests in a discernible chain of responsibility, reducing networking-related fetch times by 66% while improving code longevity through thorough error-handling
- Enhanced user visual experience by incorporating D3 to mount a dynamic, easily legible diagram displaying complex relationships between Docker containers and internal networks

## Management Experience

### Project Manager | Non-profit

Dec. 2020 - Dec. 2022

- Redesigned website while building out new features including integrated email signup with interest-specific subgroups
- Managed team of contractors to create and deploy websites to support mutual-aid mental health community

## Talks/Publications/Certifications

[AWS Certified Cloud Practitioner](#)

Nov. 2023

[Docketeer: A GUI for Docker](#), Medium

Jul. 2023

## Education

M.A. Philosophy, University of Chicago

2016

B.A. Philosophy, University of Nebraska

2013

## Interests

Birdwatching | Ecology | Chess | Logic, Language, Philosophy | Internet History | Nebraska Cornhuskers