

Garrett Allen

Full Stack Software Engineer

garrett.allen13@gmail.com | github.com/garrettallen0 | linkedin.com/garrettallen0 | garrettaallen.com

Technologies

TypeScript/JavaScript (ES6+), React, Node.js, Redux, Express.js, AWS, Docker, Python, PHP, SQL (Postgres/MySQL), HTML5, CSS3, SCSS, Less, Git, NoSQL (MongoDB), testing (Jest/SuperTest/Wallaby), Authentication (OAuth/BCrypt)

Experience

Application Developer | Dev Technology Group

Jan. 2024 - present

- Maintained application by fixing bugs on website as well as in customer content administration and internal development tools
- Developed unified styling for photo and video, creating reusable classes across sub-sites leveraging SCSS and Less while managing interactions between legacy and modern frontend styling frameworks
- Implemented responsive breadcrumb system with easily configurable settings for easy admin maintenance and user site navigation
- Built module to integrate with CMS to extend URL redirecting functionality to include user-generated aliases
- Wrote Python script to automate labor-intensive segment of content creation workflow reducing publishing time by 17%

Software Engineer | Congruity Works

Jul. 2023 - present

- Fulfilled client tickets and requests including UI bug fixes and implementing new features by creating new components
- Improved end user experience by customizing English-Spanish bilingual menu, menu items, and article tags on client's news media site
- Maintained MySQL database by developing MySQL scripts in a custom PHP function to transform outdated data strings into valid HTML
- Migrated company website from Drupal 7 to 10 by 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 (OOCSS), view modes and Twig templating, and environment set-up with Lando and Acquia/Pantheon

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

Dec. 2022 - Jul. 2023

- Implemented React and React Router to build dynamic GUI and data visualization tool for Docker enabling users to create user-defined containers and networks, maintain container network connections, and easily keep track of key metrics e.g. CPU, memory
- Enhanced user visual experience by incorporating D3 to mount a dynamic, easily legible, diagram displaying complex relationships between Docker containers and internal networks
- Used Redux 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 in order 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
- Expanded test coverage with a modular unit test for networking functionality built with Jest and Supertest, facilitating onboarding and diminishing tech debt while contributing to the continuous integration (CI) pipeline

Volunteer Projects

Software Engineer (volunteer) | Climate Collective

July 2023 - present

- Used Python to automate segment of workflow for curating climate events by hitting API and formatting response data
- Built out event creation and submission test suite using Elixir and Wallaby
- Built responsive navigation menu designed for optimal user experience by developing requirements in collaboration with design team

Management Experience

Project Lead | Center for the Working Poor

Dec. 2020 - Dec. 2022

- Redesigned website while building out new features including integrated email signup with interest-specific subgroups
- Managed team of 8 contributors in creating documentation to enable decentralized mutual-aid mental health community

Talks/Publications/Certifications

[AWS Certified Cloud Practitioner](#)

Nov. 2023

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

Jul. 2023

[Web Servers](#), Software Developer Speaker Series, Jeeny & Bractlet

Jul. 2023

Education

M.A. University of Chicago

2016

B.A. University of Nebraska

2013

Interests

Birdwatcher | Kayaker | Swimmer | Chess Player | Language & Literature Aficionado | Plato & Aristotle Enthusiast |
Fluent German Speaker | Mediator | Cornhusker