Ahmed Abuelgasim | Senior Software Engineer

Insightful engineer with over nine years experience delivering quality, performant and accessible digital products. Proven track record tackling complex technical challenges across a variety of projects, primarily for Google. Attained extensive front-end expertise with React and Angular, and back-end skills in Python, Django and PHP. Exhibits high attention to detail, exceptional problem-solving abilities and strong communication skills.

Notable achievements

Accessible Custom Elements (ACE) component library

- At Potato, identified recurring need to build accessibility features into new components, so created **ACE**, an open-source library of UI components for assistive technology users.
- Led project from concept to completion, published on npm, supported adoption across multiple Google digital products and Potato's **website**, and currently maintain it.
- Automated documentation updates using Node.js and CI/CD, enabling users to interact with latest version of components while viewing source code simultaneously.

Knowledge sharing

- Wrote 6 articles for 'Web designer' and 'net' magazines, and accessibility blog posts.
- Delivered numerous accessibility tutorials and CSS Grid Layout Module workshops.

Work experience

Senior Software Engineer | Workiva
Oct 2023 - Present | Remote

- Converted user dashboard Dart components to a React and TypeScript microfrontend architecture, applied new design system and improved performance and test coverage.
- Developed React component library, customisable via JSON configurations and aligned with Workiva UI standards, allowing builders to tailor Workiva solutions for end users.
- Created Node.js templating tool to generate new component schema and Dart boilerplate, and implemented localisation features and accessibility best practices.

Senior Frontend Engineer | Google (via Potato)
Mar 2021 - Sep 2022 | Remote

- Joined a Google team for 18-month engagement, leading key front-end development efforts on Angular app for content creators to build customisable web storefronts.
- Developed multifaceted admin dashboard that showcases engagement and sales metrics presented through various dynamic and interactive data visualisations

Senior Frontend Engineer | Potato
Oct 2017 - Mar 2023 | London, UK & Remote

- Core contributor on cross-functional teams working on multiple projects, almost exclusively for Google, collaborating closely with UX and backend engineers.
- Architected and led frontend build of Angular app for Google Ads, enabling clients to assess digital marketing maturity and receive tailored service suggestions. Expanded after launch to support News, Retail and Cloud teams each with custom assessments.
- Evaluated AngularJS alternatives before end of life for two major projects, authored specification documents and led refactoring to improve security and maintainability.
- As part of Quality Guild, created GitLab CI/CD templates to automate Google Cloud or Firebase deployment and Lighthouse runs, minimising regressions.
- As part of Accessibility Guild, conducted accessibility audits on multiple projects, implementing improvements to achieve perfect Lighthouse scores.

✉ a.abuelgasim2023@gmail.com
🌐 a-abuelgasim.github.io/portfolio
github.com/a-abuelgasim
linkedin.com/in/a-abuelgasim

Education

PhD, Electronic Engineering
University of Southampton, UK

Master's, Electronic Engineering
First Class (Honours)
University of Southampton, UK

Skills

Frameworks & Libraries

- React
- Angular
- AngularDart
- Vue
- RxJS
- Django
- Sass

Languages

- JavaScript
- TypeScript
- Dart
- Python
- CSS
- HTML
- Bash
- PHP

Testing & QA

- Cypress
- Jest
- React Testing Library
- Jasmine
- Vitest
- GitHub Actions
- GitLab CI/CD

Other

- Node.js
- Google Cloud
- Firebase
- JSON Schema
- Figma