Ahmed Abuelgasim | Senior Software Engineer

Product-focused engineer with over nine years of experience delivering sophisticated, performant and accessible digital products. Proven ability to solve complex technical challenges across diverse, impactful projects, mainly for Google, with an emphasis on UX, scalability and quality. Expertise in React, Angular and TypeScript, with strong backend skills in Node.js and Python. Effective cross-functional collaborator and mentor with exceptional attention to detail and strong problem-solving and communication skills.

Notable achievements

Accessible Custom Elements (ACE) component library

- At Potato, identified a recurring need for accessibility features in new components so created **ACE**, an open-source, accessible UI component library for assistive tech users.
- Led a team to build and drive adoption across high-impact Google and Potato products, delivering customisable, styleable components that enforce accessibility best practices.
- Created dynamic documentation using Node.js and CI/CD that renders a component alongside its latest code, for side-by-side preview and seamless developer integration.

Knowledge sharing

- Wrote 6 articles for *Web Designer* and *net* magazines, and accessibility online editorials.
- Delivered accessibility, CSS grid and frontend best practices tutorials and 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 and maintained React component library aligned with Workiva UI standards, providing JSON-configurable components for rapid, customisable no-code UI solutions.
- Created Node.js templating tool to generate new component schemas and boilerplate, streamlining workflow, accelerating velocity and improving developer experience.

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

- Joined Google team to lead key front-end development efforts on scalable Angular app for content creators to build customisable web storefronts and sell digital products.
- Developed feature-rich admin dashboard with dynamic, interactive data visualisations and real-time analytics, showcasing engagement, sales and key business metrics.

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

- Core contributor on cross-functional teams delivering multiple digital products almost exclusively for Google, collaborating closely with UX designers and backend engineers.
- Architected and led front-end build of Angular app for Google Ads, enabling clients to assess digital marketing maturity and receive tailored service suggestions. Scaled after launch to support News, Retail and Cloud teams with custom designs and assessments.
- Assessed AngularJS alternatives prior to end-of-life for two major projects, authored technical specifications and led refactoring to enhance security and maintainability.
- As part of Quality Guild, created GitLab CI/CD templates to automate Firebase or Google Cloud deployments and Lighthouse performance audits, improving release reliability.
- As part of Accessibility Guild, led accessibility audits across multiple projects applying expert knowledge to implement improvements, achieving perfect Lighthouse scores.

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in linkedin.com/in/a-abuelgasim

Education

PhD, Electronic Engineering
University of Southampton, UK

Masters, Electronic Engineering
University of Southampton, UK
First Class (Honours)

Skills

Frameworks & Libraries

- React
- Angular
- Vue
- Express
- Sass
- Tailwind

Languages

- JavaScript
- TypeScript
- Dart
- CSS
- HTML
- Python

Testing & QA

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

Other

- Node.js
- MongoDB
- Google Cloud
- Firebase
- Figma