

Aulia Zulkarneidi

WEB DEVELOPER

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A results-driven web developer experienced in delivering fast, accessible, and cross-platform digital solutions. Skilled in front-end and full-stack development, with a focus on performance, animation, user experience and AI integration. Focused on building scalable products that solve real problems in agile, collaborative teams.

EMPLOYMENT HISTORY

WEB DEVELOPER | GREGGS PLC

Food and Beverage Services

Retail

Newcastle Upon Tyne, UK

January 2024 - Present

- Develop and maintain a Flutter-based kiosk app on Linux/Kubernetes, now live in 7 stores, handling 700+ daily transactions, increasing profits by 20% as well as Greggs app scan rose from 20% to 50%.
- Improved development efficiency by 50% through modern, user-focused UX in early prototypes of key features such as meal deal builder, customisation, upselling, and loyalty integration.
- Enhanced code consistency across systems by engineering reusable Dart libraries hosted on OnePub.
- Developed and maintained Greggs' website using VueJS, Nuxt, Tailwind, and Storyblok, increasing monthly traffic by 10,000+ through UX and performance enhancements.
- Raised Lighthouse accessibility score from 78 to 89 by applying WCAG standards across key web pages.
- Reduced customer support queries by 70% by building secure .NET and GraphQL endpoints for guest checkout and mobile number updates.

WEB DEVELOPER | VI8E INTERACTIVE PTE LTD

IT Services and Consulting

Singapore

April 2021 - November 2022

- Delivered a cross-platform ERP system using Vue.js with SSR, now live on both App Store and Google Play.
- Improved user experience by implementing geolocation, biometric login, camera integration, and offline memory capture.
- Enabled multi-language support (English, Chinese, Indonesian, Malay) through full internationalisation (i18n).
- Ensured responsive design and cross-browser compatibility, creating a consistent experience across platforms.
- Collaborated with the team to deliver secure, performant, and user-centred features.

WEB DEVELOPER | UNIVERSITAS SUMATERA UTARA

Academic

Freelance/ Project-Based

Indonesia

January 2017 - April 2020

- Collaborated with academic and admin teams to design and deliver user-centric web systems.
- Built and maintained core platforms including finance, logistics, and a research proposal management system.
- Developed a dissertation management portal to streamline academic submissions and approvals.
- Delivered full-stack solutions using PHP, JavaScript, Bootstrap, CodeIgniter, Yii, and MySQL, improving operational efficiency across departments.

SKILLS

- **Frontend:** Flutter, Dart, Vue, Nuxt, React, NextJS, Redux, Tailwind, Bootstrap, Three.js, GSAP, Framer Motion
- **Backend:** NodeJS, ASP.Net, Python (Flask, Django), GraphQL, MySQL, PostgreSQL, NoSQL
- **Testing:** Vitest, Jest, Cypress, Flutter Test
- **Other Tools:** Kubernetes, Microsoft Azure, Git, SSH, Linux, TensorFlow, Storyblok CMS, D3.js, Power BI

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EDUCATION

NEWCASTLE UNIVERSITY

Distinction

Newcastle Upon Tyne, UK

September 2022 - August 2023

- Developed an interactive UI with JavaScript and D3.js to assist community analysts explore Echo Chambers.
- Designed a data visualisation dashboard to analyse the Manchester Outbreak dataset, with Microsoft PowerBI, Python, and geolocation APIs to support users at all experience levels.
- Achieved a mark of 90 in the Data Engineering module by applying community detection and centrality analysis using Spark and Neo4j on the NYC Taxi dataset, leading to zone priority recommendations.
- Built AI models including CycleGAN, LSTM-based story generation, and a ResNet-50 bird classifier with over 60% accuracy.

UNIVERSITAS SUMATERA UTARA

2:1

Medan, Indonesia

September 2014 - January 2020

- Published a research paper on NLP and AI-driven hematology data interpretation using Python and Flask.
- Earned top marks for designing an intelligent file search engine in the Human-Computer Interaction module.
- Delivered a mobile earthquake alert app using Java and US Geolocation API.

PROJECTS

ECVIZ (ECHO CHAMBER VISUALIZATION)

Javascript

D3.js

Python

May 2023 - August 2023

- Partnered with a community analyst to gather domain knowledge and define system requirements.
- Developed a visual analytics tool, rated 90% for ease of use, to support insight generation for echo chamber analysis in French media.

MEDIS (MEDICAL EARLY DIAGNOSIS INTERPRETATION SYSTEM)

Python

NLP

HTML

February 2018 - January 2020

- Collaborated with doctors, general practitioners, and hematology lab assistants to gather domain knowledge and define system requirements.
- Delivered a tool with 93% perceived accuracy and 90% ease-of-use, enhancing result interpretation for junior GPs and streamlining medical record-keeping.

PUBLICATIONS

- [Implementing Cosine Similarity Algorithm to Increase the Flexibility of Hematology Text Report Generation \(IEEE 2020\)](#)

ACHIEVEMENTS

- Won Best Team at Greggs Doing Good Hackathon 2025 by developing a food waste management portal and data flow.
- Secured First Runner-Up at Telkom University Indonesia IoT innovation and journal competition for a Smart Traffic Light.