Software Engineer: Sayvai Tosu

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Profile Summary

Experienced **Senior Software Engineer** of over **10 years**, delivering **frontend** leaning **full stack** web application solutions for industry leaders like **IBM**, **Sky** and **Babylon**, driving growth and efficiency.

Delivered several multi-faceted bespoke implementations from small to large greenfield and existing projects, used by up to millions of customers. Producing CMS features, dashboards, widgets, REST API endpoints, data-visualisation, and UX improvements, across industries such as Media, Health, IT, Public Sector, and Finance.

Worked to several multi-disciplinary small to large agile teams, translating API and UI designs to code, while also mentored junior and mid-level developers, and contributed significantly to organisational success through the implementation of performant, maintainable, and modular code solutions.

Key Skills (years of experience)

- JavaScript (14)
- React (6)
- TypeScript (6)
- Redux (5)
- Next.js (1)
- Node.js (1)
- TailwindCSS (1)
- HTML (14)
- CSS (14)

Key Highlights - Professional Experience / Contracts

Software Engineer (freelance, part-time contracts, open source)
Euston, London

DigiFlow Limited (Personal Services Company)
May 2012 to Present

- **Pixels AI** (*Dec 2023*) - Completed a part-time freelance contract, and immediately got up and running, implementing a redesign and responsive public facing site, which involves collaborating closely with the marketing executive (in-person), providing iterative feedback on-the-fly, and translating Figma designs into modular React MUI code. In the end, merged in 30+ atomic quality PRs over 4 days of work.
- **Resume Matcher** (*Aug 2023 – Present*) - Implemented a full-stack web app from scratch using Next.js as the core React meta-framework, with Python integrated as the backend within the same repo. The app is intended to allow for jobseekers to upload their CVs, and several job specs on the frontend UI, which is then parsed by backend to return an ATS match score, enabling jobseekers to refine their CVs accordingly.

Key skills, achievements, and deliverables: React.js, TypeScript, Next.js, Python, FastAPI, Figma, Demos, Material UI, Styled Components

Senior Front End Developer (contract)
Moorgate, London

BIGTXN (Fintech)
June 2024 to Present

- Sole senior frontend developer leading and delivering the UI/UX development of a financial SAAS web app project using React and TypeScript, working within a small agile team.
- Closely collaborating with the product specialist and backend developer to model the data to develop out API endpoints, to then connect with the frontend.
- Performing research and integration of payment gateway technology; Stripe, to enable revenue monetisation of the SAAS app for the business.

Key skills, achievements, and deliverables: React.js, TypeScript, JavaScript, HTML, CSS, Material UI, React Query, API, Payments, Stripe

Frontend Development Consultant *(contract)*

Osterley, London

Sky *(Media)*

Feb 2024 to May 2024

- Led the web app webpack bundler upgrade from v2 to v5
- Performed rapid ad-hoc frontend bug fixes under time-pressure for the app to be release-ready.
- Collaborated / pair-programmed with the team to efficiently assist them in troubleshooting various issues.

Key skills, achievements, and deliverables: React.js, TypeScript, JavaScript, HTML, CSS, Redux Saga, RxJS, Electron, Promon, App Security, Anti-Tampering

Frontend Engineer *(contract)*

Euston, London

SigTech *(Fintech)*

Mar 2023 to June 2023

- Created MVP web app with React.js, TypeScript, and React Hook Forms for financial partners.
- Empowered users to upload extensive datasets, configure custom rules via dynamic API-driven forms, and visualise data efficiently with performant virtualised lists.
- Translated Figma designs into reusable atomic UI components in alignment with the project's design system through close collaboration with the UX team.

Key skills, achievements, and deliverables: React.js, TypeScript, Mock Service Worker (MSW), React Query, React Hook Forms, React Window (virtualisation), React Testing Library, Radix UI, Demos

Senior Frontend Engineer *(contract)*

London / Manchester

TickX *(Events)*

Jul 2022 to Nov 2022

- Developed and maintained a white-label ticketing SaaS product in React and TypeScript, enabling TickX clients to sell timed and seated event tickets on their domains.
- Built reusable abstract React components integrated with Storybook, into a private NPM UI library for optimal streamlined development.
- Integrated REST APIs within a Node.js web application using Nest.js.
- Managed A/B tests on the frontend, enhancing user experience by utilising the Amplitude SDK.
- Elevated development practices and standards within the teams by enhancing PR reviews and technical documentation. Resulted in heightened developer efficiency and improved code quality output.

Key skills, achievements, and deliverables: React.js, TypeScript, Recoil, SASS, React Testing Library, Storybook, Chakra UI, Cypress, BFF, Node.js, Nest.js, REST, GitHub, Shortcut, Notion, Amplitude (A/B Testing)

Software Engineer *(contract)*

Knightsbridge, London

Babylon *(Health)*

Mar 2022 to Jul 2022

- Developed an AI-driven Symptom Checker medical tool embedded in Babylon Health apps, utilising React and TypeScript.
- Enabled users to input symptoms via dynamically generated questions from a backend health graph model.
- Generated personalised summary reports of potential medical conditions with actionable recommendations.
- Presented sprint demonstrations of features and bugfixes to stakeholders every 2 weeks.

Key skills, achievements, and deliverables: React.js, TypeScript, SASS, React Query, React Testing Library, Cypress, GitHub, Jira

Senior Developer *(contract and permanent)*

Sky *(Media)*

Osterley, London

Jul 2017 to Feb 2022

- Developed and maintained internal CMS web app for Sky programme content editors, facilitating curation of NOW OTT media service content that is streamed to millions of customers.
- Utilised React.js, TypeScript, Redux, and Reselect in a hybrid setup with migration away from AngularJS.
- Committed to latest ES6+ standards and routine unit and E2E test writing.
- Boosted dashboard render performance by approximately 20% for paginated scrolling of hundreds of assets.

Key skills, achievements, and deliverables: HTML, CSS, React.js, TypeScript, Redux, Redux Thunk, Reselect, AngularJS 1.5, Material UI, Code reviews, ReST APIs, Git, Jira, JavaScript, Stylus, Jest, Mocha, Chai, Protractor, Cypress, Functional testing, Agile, Scrum, Demos

Frontend Developer *(contract)*

Barclays *(Finance)*

Canary Wharf, London

Jan 2017 to Jul 2017

- Worked on multiple feature tasks to redevelop intranet platform.
- Improved UI and UX in collaboration with design team, continuously iterating over feedback received.

Key skills, achievements, and deliverables: AngularJS, JavaScript, jQuery, Grunt, Bower, HTML, CSS, Bootstrap

JavaScript Developer *(contract)*

IBM *(Information Technology)*

Hursley, Hampshire

Nov 2015 Nov 2016

- Delivered 2 web app projects: Text-to-Speech, and Organisational Data Analyser (ODA).
- Text-to-speech integrates with the IBM Watson AI platform to feed word inputs and learn pronunciations.
- ODA integrates with Watson to mines vast amounts of external organisational data into a report dashboard consisting of various charts, using the c3.js charts abstraction library.

Key skills, achievements, and deliverables: AngularJS, ES6, REST, Node.js, ExpressJS, Kanban, Unit tests, Protractor

Web Developer *(contract)*

Metropolitan Police Service *(Public Sector)*

New Scotland Yard, and Kennington, and Earls Court, London

Jan 2011 to Oct 2015

- Redeveloped an online crime-reporting web app form, with cross-browser support and much improved UX.
- Delivered a hybrid mobile forms-based app (Merlin) using Ionic, which was featured on the BBC Sunday Politics programme (2015).
- Lastly, building out an in-vehicle-mobile-app (IVMA) to allow road officers to interactively response to prioritised incidents leveraging geo-location within maps.
- Nominated as the de-facto frontend lead by my peers, to lead the planning sessions on behalf of the frontend team, to provide technical feasibility input, create stories, and breakdown tasks.

Key skills, achievements, and deliverables: AngularJS, HTML, CSS, jQuery, CMS, internal support tooling development, REST, JSP, hybrid mobile development, EJS (JS templates), UX/UI collaboration, scrum, agile, PHP

Software Engineer *(full-time, summer intern)* — *Canary Wharf, London*

SunGard *(FinTech)* — *Jun 2010 to Aug 2010*

- Worked as a summer intern to deliver one ETL project.
- Nominated as a team leader of five that is tasked to deliver a successful business intelligence solution.
- Leveraged Integration Services (SSIS) and Analysis Services (SSAS) within the MS SQL Server DB platform.

Key skills, achievements, and deliverables: Business Intelligence, ETL, SSIS, SSIS, OLAP database implementations

Web Developer and Support *(full-time, university sandwich year)* — *New Scotland Yard, London*

Metropolitan Police Service *(Public Sector)* — *Aug 2007 to Aug 2008*

- Developed out and maintained the public facing website and intranet, ensuring strong accessibility and cross-browser support.
- Collaborated with design and marketing teams to implement to high-fidelity UI and UX requirements.
- Developed internal tooling (VBA scripting in MS Excel) to automate dynamic generation of static HTML files.
- Assisted with IT support, troubleshooting CMS content authoring queries, and developing CMS templates.

Key skills, achievements, and deliverables: HTML, CSS, JavaScript, PHP, Classic ASP, VBA, CMS templates, XML, XSLT

Open-Source Contributions / Projects

- Jan 2023 to present: ___Online Portfolio___ | Next.js, React.js, TailwindCSS, GraphQL
- Aug 2023 to Dec 2023: ___Resume Matcher___ | Next.js, React.js, TailwindCSS, Zustand, Python, FastAPI

Certifications / Academic Background

- Aug 2023: ___AWS on Coursera: Building Serverless Apps on AWS___ | Professional Certificate
- Jul 2023: ___Meta on Coursera: Meta Back-End Developer___ | Professional Certificate
- Sep 2009 to Sep 2010: *University College London*: **MSc, Financial Systems Engineering** | Pass
- Sep 2005 to Jul 2009: *Kingston University*: **BSc (Hons), Computing with Business** | First Class + Project Prize Winner