joél hawkins torres



♀ Portland, OR

□ https://joel.fm

in @hwknsj

@hwknsj

SKILLS & CERTIFICATIONS

Computer Skills

Fluent | TypeScript, JavaScript, React.js, Node.js, HTML, CSS/SASS/SCSS, Next.js, Gatsby.js, Redux, GraphQL, Apollo, AWS (Lambda, S3, DynamoDB, CloudFormation), Jest, Python, SQL, Nginx, Unix. Skilled | Kotlin, Java, React Native, PHP, Web Animations, WebGL, Electron.

Learning | Go, Rust, Svelte, Swift, iOS development.

Awards & Certifications

IKM React.js Assessment | 98th percentile - 2022 TripleByte JS Assessment | 'Exceptional' – 2022 Apple Certified Technician | KHBC05E2BE - 2013

Spoken Languages

English (native), Spanish (conversational)

Interests

Music composition, classically-trained vocalist, pianist, jazz drummer, hip-hop dance, running, fashion/apparel, tailoring, world politics, law.

ABOUT

I'm a web developer, designer, and software engineer: I specialize in building modern web applications from the bottom up-front to back-with a focus on JavaScript & TypeScript frameworks. Over 10 years of professional engineering experience, I've developed a uniquely well-rounded problemsolving approach. Combining rigorous mathematical and analytical skills cultivated while earning my B.A. Physics from Reed College, my lifelong affinity for visual design, fascination with technology, computing, and, of course, the web. Above all, my work is characterized by the ability to learn and adapt quickly, developing a thorough understanding of underlying technologies & best practices, the knowledge and experience to explain it in clear language, an emphasis on efficiency and simplicity, and constantly considering the question who is this for? The solutions I deliver are built for efficiency and longevity, engineered to withstand abuse, designed to be beautiful, engaging, accessible, and ultimately made to be used.

My technical skill set is considered 'full stack', however the principles of aesthetic design, user experience, and creative sensibility are inextricable to my work-these elements are often overlooked by many. It is difficult to overstate the importance of less technical skills, including writing, communication, and presentation, all of which I believe are critical as one necessarily must collaborate with others to be successful in our shared goals. With this notion, I have mentored a number of junior colleagues in both technical and professional aspects, a role I take very seriously and attribute to an eagerness and ability to collaborate effectively with anyone. I continuously work to improve these skills as well as expand my knowledge of front and back-end technologies. It is with this unique combination of talents, analytical multi-disciplinary backgrounddemonstrated through years of experience in a variety of industries, at companies large and small-and a strong work ethic that I work to deliver creative solutions in the face of complex problems. continued on next page ...

SELECT EXPERIENCE

Autodesk Inc.

June 2023-Apr. 2024 Portland, OR

Senior Full-stack Engineer III

Direct Experience Engineering

Developed features, optimized, maintained Autodesk.com micro-frontend applications incl. cart, checkout, user portal using React.js, Redux, JavaScript ES6, Styled-components, SCSS.

Implemented major redesign/back-end overhaul of Autodesk checkout experience, user portal; Node.js REST APIs, AWS Lambda, Step-functions, API Gateway, Adobe AEM, etc. which handles all purchase, payment, subscription, invoicing for all Autodesk

Lead initiative to restructure workload/task allocation resulting in increased JIRA sprint velocity, more efficient stand-ups, agile sessions, minimal scope changes, improved on-time delivery.

Optimized checkout app-Java/Spring/Groovy MVC & micro front-end (MFE) architecture, Adobe AEM back-end-reducing page load time by 4 seconds.

Developed Autodesk UI component library implemented in TypeScript, React.js, SASS/SCSS used globally among hundreds of Autodesk engineers in building customer-facing web & platform applications.

Implemented export control compliant rules in AWS API Gateway, Step-functions, CloudWatch, CloudFormation, & Lambda. Increased efficiency of micro frontend CI/CD build, test, deployment pipeline from >80min to 22min by optimizing Jenkins (Groovy) logic, load-balancing in CloudFormation, implementing automated unit, end-to-end (E2E), integration tests with increased reliability, & improved error reporting.

Repaired & enhanced automated browser tests, end-to-end, component, & integration tests using Cypress in Jenkins CI pipeline dramatically improving reliability, eliminating need for multiple costly restarts to complete Github PR check procedure. Improved unit test (Jest, React Testing Library, Mocha) coverage & code quality (Istanbul, SonarQube) of React.js micro frontends to meet company-wide 90% coverage standards.

Intuit Inc.

Senior Full-stack Engineer III

Sept. 2022-Apr. 2023 San Diego, CA

Consumer Tax Group | TurboTax Online

Delivered over 40 new features for flagship application, TurboTax-Java/Spring MVC back-end with React.js, TypeScript front-end, incl. test coverage >90%, AAA WCAG accessibility, improvements in reliability & service uptime.

Engineered new features of TurboTax platform, combining Java, Kotlin, Spring micro-services, React.js, TypeScript UI, Node.js. Implemented features in TurboTax Java/Kotlin/Spring MVC including unit (JUnit), end-to-end, integration (Cypress) & REST API tests (Jest), using Maven to manage dependencies.

Developed browser extension "Bento" to simplify debugging internal apps, extended compatibility with Firefox and Chrome. Engineered highly anticipated instant tax-document upload feature, merging user's CreditKarma data seamlessly during filing process. Lead technical implementation of user analytics for TurboTax Online in collaboration with UI/UX teams, deriving meaningful metrics of user interactions, impressions leading to new features & improvements.

Developed robust type definitions for core JavaScript/TypeScript & React component libraries used by hundreds of developers across all Intuit products, accelerating development process, ensuring code quality.

Mentored junior developers in advanced TypeScript & React.js as well as professional skills to improve collaboration with designers, managers, executives, and effectively express technical concepts to non-technical audiences.

Promoted & expanded accessibility of TurboTax Online at the developer level, improving keyboard, screen reader, readability support, awarded title 'Accessibility Champion' by Intuit accessibility advocates.

Apple Inc.

Lead Front-end Engineer

March 2022-Oct. 2022

Special Projects Group | Cloud Infrastructure

Cupertino, CA

Lead development of location-aware Augmented Reality (AR) web application, utilizing Next.js, React.js, Node.js, WebGL APIs to render complex multi-dimensional geospatial data-visualizations, fetched & rendered dynamically in real-time.

Leveraged Apple Developer APIs & numerous geospatial data sources (of various formats) & designed interactive interface displaying location-based information to enhance user's environmental awareness.

Configured & managed secure development server with Nginx/Node.js/Next.js enabling features incl. server-side caching, SSR, dynamic content, lazy-loading, & server components-reduced network load, delivering stable, optimized performance for intensive applications.

Contributed to Apple UI design system, enhancing React.js/TypeScript UI library enabling visual consistency across web applications & cohesive design vocabulary company-wide.

Worked closely with executives, group leadership & UX designers to develop team launchpad application providing gateway access to critical resources, experimental data, analytics, & high-level overview.

Nike Inc.

Senior Full-stack Application Engineer

March 2021-Feb. 2022

WHQ, Portland, OR

Global Enterprise Architecture

Lead development of front-end applications for Global Enterprise with Node.js, React.js, Javascript ES6, Typescript, Redux, Next.js, AWS services enabling creation / secure deployment of dedicated AWS resources using arbitrary Docker container / AWS image incl. zero-config Splunk analytics.

Designed & engineered components for UI pattern library "Nike Design System" using Typescript, React.js, SCSS/SASS, Emotion.js. Developed React.js/TypeScript/Redux/Webpack application template enabling engineers to immediately develop new applications & bootstrap new projects according to Nike UX / UI design & tech. standards.

Configured CI/CD pipeline of large-scale web platforms using Terraform, Github Actions, & CircleCI, automating deployment to AWS S3, Cloudfront, incl. end-to-end testing, certificate creation, & AWS Route53 DNS management.

Developed & implemented tools such as Splunk, Artifactory to routinely audit, report impact, & fix vulnerabilities in enterprise platforms which routinely handle highly-sensitive enterprise data.

Mentored four junior engineers in advanced Javascript, React.js techniques, provided guidance in navigating workplace, communicating/collaborating, career as well as technology.

EDUCATION

Reed College

Aug. 2011-May 2015 Portland, OR

Bachelor of Arts in Physics

Class of 2015 | Advisor: Daniel Borrero

Thesis: Looking at Pictures: Topological analysis of complex reaction-diffusion systems

(online at thesis.joel.fm)

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in @hwknsj @hwknsj

ABOUT (continued)

I graduated from Reed College in 2015 with a B.A. Physics. Throughout the course of my senior year, I authored a formal thesis, an opportunity to contribute to the academic physics community. I sought to quantify subjective visual characteristics (e.g. 'naturalness') of patterns in nature (such as the patterns formed by coral reef). I examined patterns created by a set of time-variant nonlinear differential equations which model complex chemical reactions (i.e. 'reaction-diffusion'), equations pioneered by Alan Turing. Utilizing a new & increasingly complex mathematical technique known as 'homology', I performed multi-dimensional computational analysis of the resulting patterns' topology (Python/C). Communicating mathematically complex research in a clear & engaging way presented a challenge. I looked to the web as an interactive canvas-I built a webpage to present the computer generated graphics alongside interactive JS data visualizations. The satisfying reward of seeing those with no formal math/physics education (e.g. mom) gain an intuitive understanding of my work ultimately led me to pursue a career in the web. The accessibility of my work has inspired continuing research on this topic by successive Reed students. The full text & interactive visualization is available at https://thesis.joel.fm.

Visit my design portfolio at https://joel.fm for more including, personal projects, work examples, and links to my social sites. Also check out my browser extension in the Mozilla Add-ons store.

SELECT EXPERIENCE

eBay Inc.

Senior Web Developer

April-Sept. 2020 Regional Development: Americas

San Jose, CA

Developed critical components for eBay public-facing JavaScript pattern libraries, eBay Skin (React) & eBay-UI Core.

Ensured cross-platform/category compatibility of components developed for site-wide libraries.

Audited & enhanced security of source code, identifying out-dated / potentially exploitable Node.js dependencies.

Refactored numerous components according to latest ES6/7 React/JavaScript standards, minimizing codebase & increasing efficiency. Implemented robust type-checking in eBay TypeScript libraries, enabling accelerated development & minimizing errors.

Developed underlying JavaScript for eBay's open-source project Marko, a declarative HTML-based 'meta-language' combining HTML, CSS, & JavaScript.

Wrote comprehensive React component tests using Jest, Enzyme to ensure stability & uniformity.

Authored rich, playground-style Storybook documentation of eBay Skin React components, furthering their flexibility & adoption while enhancing understanding with interactive examples.

Tripwire Inc. **Lead Full-Stack Engineer**

July 2019-Feb. 2020

R&D / SaaS UI

Portland, OR

Designed & developed streamlined user interfaces for R&D web applications in JavaScript & TypeScript with React.js, Redux, Node.js,

Developed UI for new feature enabling "on-demand" vulnerability scanning of large-scale systems/networks with specific rulesets, targets, extending flexibility & functionality of Tripwire IP360.

Lead project to upgrade & unify front-end UI among Tripwire Enterprise products creating consistent UX & company branding. Identified & documented vulnerabilities in Tripwire & partner software ensuring security in public releases.

Created interactive forms for Tripwire SaaS/cloud-based enterprise products enabling fine-tuned system management for DevOps and administrative users with Material UI, TypeScript, React hooks, Formik, ultimately reducing computational/network load and eliminating dependency on costly Redux-based operations.

Implemented automated UI tests for Tripwire SaaS application using Cypress & developed code linting/formatting hooks for R&D.

Squishymedia

JavaScript Developer

Oct. 2018-Feb. 2019

Creative Development

Portland, OR

Headed development of custom web annotation application (JavaScript, React.js, Redux, Gatsby) w/ companion Chrome extension for Columbia University dept. of philosophy.

Developed Google Chrome extension to create & store 'on-the-fly' annotations of web content, incl. community features (e.g. comments, ratings, user profiles).

Engineered extension UI displaying new annotations in real-time.

Designed annotator community playground site (Gatsby.js, React.js) incl. user registration/authentication using JWT & browser storage.

Authored API specifications for annotator back-end, built with Node.js.

Lead research, development, presentation of technology stack and project roadmap for client projects.

Developed & styled company website redesign using React, Gatsby enabling easy content creation/editing.

Composed designs & provided comps for client projects using Adobe XD, improving project planning & helping clients visualize end-product.

Nike Inc. Resident Physicist & FlyKnit Innovation Engineer

Feb. 2016-Mar. 2017

Advanced Manufacturing | FlyKnit

WHQ, Portland, OR

Innovated advanced product creation processes of Nike FlyKnit footwear tech. via continuous software infrastructure updates to maximize efficiency.

Lead rapid development of proof-of-concept (POC) manufacturing API using Python, Node.js, Express.js, PostgreSQL, AWS & delivered live demonstrations for stakeholder executives.

Optimized dispatching of unique work orders to factory floor; designed automated Node.js API connected to AWS S3/Lambda/DynamoDB to deliver unique machine-specific production files/info generated 'on-the-fly' to operators on factory floor dramatically improving efficiency.

Developed cross-platform Manufacturing Execution System (MES) & REST API (Node.js, Express, PostgreSQL) maintaining realtime work-order database. Extensively tested to ensure non-blocking efficiency & stability at massive scale.

Authored extensive documentation of MES to allow further development; the codebase executes manufacturing of Nike's new FlyKnit Apparel product line.

Streamlined production process of bespoke FlyKnit products, delivering unique merchandise to consumers in unprecedented delivery time and minimized material waste.

Collaborated with manufacturing, design, and software teams to mitigate design concepts with engineering challenges for new products.

Performed exhaustive manufacturing tests with data analysis, reporting on factors affecting efficiency & impact of other variables. Developed & demonstrated weekly agile/iterative enhancements to user experience and internal workflows, benefiting Nike designers, engineers, and project managers.

Extended advanced features for the PPM tool Workfront with custom Node.js API & web form to optimize submission & management of new product test orders.

Engineered React.js web app displaying real-time order status, continuously updating and notifying progression at each stage.

Configured & deployed numerous Node.js / Express web servers on Linux/Windows/Mac and 'serverless' infrastructure.

Collaborated in agile software development, gathering requirements, presenting weekly sprints.