

joél hawkins torres

📍 Portland, OR
✉️ joel@joel.fm
📁 [portfolio](#) | [joel.fm](#)
in [linkedin](#) @hwknsj
🐙 [github](#) @hwknsj

SKILLS & INTERESTS

Computer Skills

Fluent | JavaScript & TypeScript ES6+, React.js, Node.js (API architecture), Redux, Next.js, Gatsby.js, AWS deployment (S3, DynamoDB, Lambda) / Terraform / Cloudfront, GraphQL, Apollo, Jest/Enzyme, Python, HTML/CSS/SCSS, SQL, DB architecture, Nginx/Apache, Unix/Shell, Tableau, WordPress, Adobe CC, MS Excel.

Skilled | D3.js, three.js, WebGL, PHP

Learning | Vue.js, Angular, React Native, Amazon AWS Cert., WebRTC.

Awards & Certifications

IKM React.js Assessment | 95th percentile
TripleByte JS Assessment | 'Exceptional'
Apple Certified Repair Technician

Spoken Languages

English (native), Spanish (conversational).

Interests & Hobbies

Music composition/production, classically-trained vocalist, fashion/apparel, hip-hop dance, distance running.

I'm a web developer specializing in JavaScript, front & back. With 6+ experience, a background in physics, data analysis/visualization, & 5 years of professional web development, I've cultivated a diverse skill set. Working in diverse agile teams of designers, artists, engineers, executives, and with my own clients, I prioritize delivering efficient, optimized apps. utilizing the latest tech/best practices. I'm currently focused on advanced SSR (Server-Side-Rendered) applications, GraphQL implementations, and Apollo Client/Server & Next.js.

My skills may be described as 'full stack'—though I find this term minimizes the importance of aesthetic design & user experience. By continuously expanding my knowledge of front & back-end development I have the unique ability to create intuitive, cohesive applications that take full advantage of the interactive nature of the web—always elegant, efficient, & engaging. Formally educated in physics, mathematics, computation, music composition, and digital art, my multi-disciplinary approach to problem-solving delivers creative solutions to complexity.

I graduated from Reed College (B.A. Physics, 2015) and authored thesis over the entirety of my senior year. I sought to quantify subjective visual characteristics (e.g. 'naturalness') of time-variant patterns formed by computed nonlinear chemical reactions first discovered by Alan Turing ('reaction-diffusion'). Utilizing new & increasingly complex mathematical methods known as 'homology', I performed multi-dimensional computational analysis of 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 (i.e. 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 are available at info.joel.fm/thesis.

Visit my design portfolio at joel.fm for more including, personal projects, work examples, and links to my social sites.

KEY EXPERIENCE

Nike, Inc. March 2021–current Portland, OR	Senior Application Engineer Global Enterprise Architecture
Design, develop, & maintain globally utilized Nike design system enabling enterprise-wide consistency in user-experience & branding. Enacted regular cross-team collaborative sessions, creating conversational platform for app. developers, designers, product managers, & end-users to exchange information / ideas, thereby increasing visibility, eliminating overlapping work, & streamlining process for implementing widespread, user-impactful decisions. Encouraged adoption / migration to modern web technologies (e.g. Next.js, Emotion, Gatsby.js) with demonstrable improvement in both user & development experience. Applied & implemented “best development practices”—automating where possible—ultimately enhancing code-quality, compatibility, & consistency, enabling natural development across Customer Experience managed applications. Developed React app. template enabling developers to quickly bootstrap new projects according to Nike / UX / UI design & tooling standards. Deployed large-scale applications on AWS with automated CI / CD processes using Terraform, Github Actions, & CircleCI. Implemented end-to-end application testing including unit tests, UI testing, linting, formatting, & error-checking processes greatly increasing reliability & predictability of web-applications for end-users. Advocated & demonstrated use of TypeScript for Nike internal package development to enhance developer experience. Improved site-wide Web Accessibility features & evangelized accessibility awareness, enabling previously inaccessible content / applications for users utilizing assistive technologies—aligning the Nike maxim “Everybody is an athlete.”	
eBay, Inc. April–Sept. 2020 Portland, OR (remote)	Front-End Developer II Regional Development: Americas
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 proper type-checking in TypeScript-based libraries. Contributed to novel eBay library Marko.js . Wrote comprehensive React component tests using Jest, Enzyme to ensure stability & uniformity. Authored interactive documentation of work using Storybook to increase adoption & increase understanding.	
Tripwire, Inc. July 2019–Feb. 2020 Portland, OR	UI Developer R&D / SaaS UI Contract: 7 months
Designed & developed streamlined user interfaces for R&D web applications in JavaScript & TypeScript with React.js, Redux, Node.js, and more. 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.	
Nike, Inc. Feb. 2016–Mar. 2017 WHQ, Beaverton, OR	Resident Physicist & FlyKnit Innovation Engineer Advanced Manufacturing Contract: 1 year, 2 months
Innovated advanced product creation processes of Nike FlyKnit footwear tech. via continuous software infrastructure updates to maximize efficiency. 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, eliminating all manual labor. Developed cross-platform Manufacturing Execution System & REST API (Node.js, PSQL) 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. Identified inefficient stages in FlyKnit production processes, delivering unique merchandise to consumers in unprecedented delivery time while minimizing 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 <i>Workfront</i> with custom Node.js API & web form to optimize submission & management of new product test orders. Developed graphical React.js web app displaying real-time work order status, continuously updating and notifying progression at each stage. Configured & deployed numerous Node.js + Express or Apache web servers on Linux/Windows/Mac. Collaborated in agile software development, gathering requirements, presenting weekly sprints.	

EDUCATION

Reed College Portland, OR	Bachelor of Arts in Physics Class of 2015 Advisor: Daniel Borrero Thesis: <i>Looking at Pictures: Topological analysis of complex reaction-diffusion systems</i> (online at info.joel.fm/thesis)
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