Tom King

Software Engineer (Full Stack) — Boston, MA

Generalist with 4+ years of experience building data-driven web applications from the ground up. Dedicated to providing an accessible, fast, and reliable user experience. Experienced in product design, front-end, and back-end engineering. Working with data-heavy applications used in storage, ETL, and visualization.

EXPERIENCE

National Renewable Energy Laboratory, Colorado — 2019 - CURRENT
Software Engineer Technical Lead

- ❖ Managed projects with 2-4 person teams, resulting in over $1 million in added funding.
- ❖ Led the design and implementation of software architecture, database schema, and testing procedures.
- ❖ Created a modular visualization library to efficiently iterate data, resulting in a reduction of developer effort by eliminating the need for manual coding.
- ❖ Built SPA and SSR applications with modern front-end frameworks, such as React and Flask, while adhering to WCAG AA standards or higher.
- ❖ Optimized legacy applications by implementing efficient compression and caching techniques, resulting in a 50% reduction in bundle sizes and faster page loads..
- ❖ Revamped the https://labpartnering.org site to a Vue.js / Laravel / SQL stack, resulting in a 30% improvement in search speeds and fewer page reloads.
- ❖ Conducted interviews and usability tests to refine project scope around user needs.
- ❖ Iterated dozens of mockups and prototypes to refine user flows and app architecture.
- ❖ Visualized millions of data points in 2D and 3D using SVG, Canvas, and WebGL.
- ❖ Designed 40+ logos, icons, illustrations, and animations using CSS and SVG.
- ❖ Supported 5+ developers through paired programming, UI design, and code reviews.

Self, USA — 2012 - 2019
Freelance Designer

- ❖ App development using React, Redux, NoSQL, Express, and Node.
- ❖ Developed proof-of-concept demos using JavaScript, C#, and Unity.
- ❖ Created logos, packaging, photography, 3D models, and web design and assets.
- ❖ Designed a line of skin care products and business presence for FLO + THEO.

NOA Brands, Colorado — 2015 - 2018
Master Artist

- ❖ Constructed custom models through sculpture and 3D prints in collaboration with artists, designers, and engineers for brands such as Nike, Target, and Lionsgate Media.
- ❖ Coached peers and new hires in materials and processes, design, and safety.
- ❖ Improved time to production by addressing shop inefficiencies, establishing training protocols, and encouraging communication between teams.

Jobson Healthcare Information, New York City — 2009 - 2014
Product Marketing Coordinator

- ❖ Reached hundreds of thousands of medical professionals countrywide through targeted email and print campaigns.
- ❖ Produced cross-platform email advertising using HTML / CSS / Dreamweaver, including analysis of success metrics.
- ❖ Eliminated 20% of repetitive tasks by standardizing procedures and creating reusable templates for the team.

CONTACT

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SKILLS

JavaScript / NodeJS / jQuery

HTML5 / CSS / SASS / Canvas

PHP / Python / Flask / Express

Vue.js / React.js / Redux

D3 / THREE.js / WebGL

MongoDB / PostgreSQL

Jest / Enzyme / Mocha / Chai

UX / UI / Graphic Design

Figma / Photoshop / Blender

Git / Zsh / NPM / Apache

EDUCATION

Turing School of Software & Design

Front-End Engineering

Colorado — 2018

Philadelphia University

Bachelors of Science in Industrial Design

Pennsylvania — 2009