James Koval

Staff Fullstack Engineer

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Education

B.S. Computer Science   Sept 2007 - June 2011

Principia College

Skills

Javascript   ReactJS   PostgreSQL   Rails   Typescript   GraphQL   Linux   Docker   Python

Java   NodeJS   C++

Experience

Staff Fullstack Engineer   March 2025 - Present

Orthini

- Researched and prototyped a 3rd iteration wearable device for physical therapy.

Senior Fullstack Engineer   April 2020 - Jan 2025

Aurora Solar

- Architected & built significant features in solar roof design suite.
- Launched & maintained new contractor dashboard & interface while preserving customer privacy.
- Redesigned & migrated data structures & shared features between old & new sites.

Senior Fullstack Engineer Contractor   May 2019 - April 2020

Federal HUD

- Automated user data sync SQL-AD-LDAP, and built task automation in NodeJS.

Senior Fullstack Engineer   May 2016 - Dec 2017

Amazon

- Built & launched Amazon Prime Photos from the ground up using Java/ReactJS/AWS.
- Investigated & resolved critical security emergency with federal involvement.

Senior Fullstack Engineer   June 2012 - Nov 2015

Twitter

- Built web app to crowdsource translations, using Rails/Boostrap/PostgreSQL.
- Primary open source maintainer for "twitter-text" on github, built systems to normalize text parsing among various languages and platforms.
- Developed 2-factor login and tweet-translation for Twitter Android app.

Fullstack Engineer   June 2011 - May 2012

Human Genome Project

- Developed web app for analyzing drug-gene interactions, using Rails.
- Published cancer article as research author in Nature magazine.