

Jasper Staab

Software Engineer

jasper@staab.dev

Staff Software Engineer

TypeScript, ReactJS, Deck.gl, Redux, Electron, Vite, Babel, webpack

10x Genomics

2019 – Present

Kailua-Kona, HI

- Built Xenium custom panel designer workflow generating \$1MM/mo. recurring revenue
- Created browser-based spatial gene expression and immunofluorescent visualizations on 100GB datasets
- Ported rendering engine from plotly.js to Deck.gl, enabling >2M point visualizations
- Created protocol for simultaneously visualizing and cross-referencing multiple projections from a dataset
- OSS contributions including Deck.gl lint-rules, TypeScript definitions, and OpenSeadragon bug fixes
- Architect for Loupe Browser; introduced TypeScript, led all releases from 4.0 to 6.0 with many patents
- Unified three client-side codebases into a monorepo, leaning heavily on TypeScript codegen
- Created client-side reclustering workflow to visualize the process of narrowing in on a subset of barcodes

Principal Frontend Engineer

TypeScript, GraphQL, React Native, ReactJS, webpack

Lottery.com

2018

Honolulu, HI

- Developed charitable-giving PWA to gamify donations with sweepstakes and raffles

Principal Member of Technical Staff

Promoted from: Senior Developer

Perl, JavaScript, React Native, GraphQL, Node

athenahealth

2013 – 2017

Honolulu, HI

- Led the two-year integration of CoverMyMeds electronic prescription prior-authorization services
- Reduced wait time for a prescription from over ten days to less than three; decreased fax volume by 12%
- Reached milestones and volume targets resulting in \$600K revenue from partnership in the first year
- Created a HIPAA-compliant instant messaging application, under the Epocrates brand
- Over 140K clinical staff actively coordinate care by sharing drug information, health history, and images
- Interfaced with Quest, LabCorp, and MedAssets to provide Medicare-B medical necessity verification

Engineering Manager

Promoted from: Team Lead

Promoted from: Software Developer

C#, XAML, WPF, Silverlight, C++, JavaScript

telerik

2010 – 2012

Austin, TX

- Conducted performance reviews, helped direct reports set and achieve goals
- Recruited and interviewed developers, grew new teams and leaders, focused on emerging technology
- Developed software to record and playback actions from Silverlight, WPF, and JavaScript applications

Staff Software Engineer

Promoted from: Software Engineer

Promoted from: Applications Engineer

C, Matlab, Simulink, LabVIEW, VHDL, C++

National Instruments

2006 – 2010

Austin, TX

- Developed custom servers in Matlab and Simulink to interact with LabVIEW RealTime
- Developed client/server software for LHC/CERN to monitor embedded real-time computer consoles
- Developed queue tracking app for internal technical support engineers
- Developed an FPGA front-end for a data acquisition card doubling its sample rate (100Mhz from 50Mhz)

Education

Master of Science (Electrical and Computer Engineering)

Bachelor of Science in Computer Engineering

University of Oklahoma

2010

2006

- Overwriting Unreachable Code with Binary Mimicry in the Executable File (U. of Oklahoma, 2010)
- Graduated with Distinction, President's Honor Roll, Dean's Honor Roll