

Quentin Brooks

WEB DEVELOPER

From frontend to middle-tier to backend ...

Projects

HTML5 Video Streamer	Coded own HTML5 video player, playing video muxed with own TypeScript library, streaming video from patched node-gyp (C++) bindings.
JavaScript Module Loader	Wrote drop-in replacement for require() , usable in both NodeJS and the browser .
NDIS 6.0 Filter Driver	Created network filter driver that acts as a proxy on the ETH , IP , TCP , TLS and HTTP layers, using a library for TLS decryption/ re-encryption and communicating live with a C# middle-tier.
JavaScript DOM Mounter	Developed compatible React implementation, to customize instrumentation and management of components.
C++ Webpack Plugin	Created Webpack plugin that compiles C++ to WebAssembly and generates JavaScript interface code with TypeScript typings.
CS Cart Editor Tool	Shipped order editor tool with React / TypeScript frontend, C# middle-tier and SQL backend, and that is used to fix USD 50,000+ in cancelled orders per month.
AB Test Frontend	Implemented AB test frontend tool with React / TypeScript frontend, C# middle-tier, and SQL / Redshift backend, which is used to run AB tests on millions of USD of revenue.

Skills

Frontend Frameworks	MobX, React , AngularJS , KnockoutJS
Databases	SQL stored procedures, SQL , Redshift, Bigtable
Framework Extensibility	visual studio extensions, NodeJS patches, devtools patches, webpack loaders, network filter drivers
Native	windows kernel, C++ without standard library (so no exceptions), IL emit
Network Stack	IP , TCP , TLS , HTTP , WebSockets

Contact Info

Email	quentinbrooksjob@gmail.com
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Education

2012-2016

B.Sc. C.S. from University of Waterloo

Achievements

Over 600 answer reputation on stackoverflow.com/users/1117119

Employment

Self-employed since early 2018, 2 years and 6 months at Zazzle (San Francisco) (full-time + co-op), plus two other co-op placements.

Self-Employed

Feb 2018 - present

Web developer, full stack, from Windows Kernel drivers to SMIL (SVG Animations).

Zazzle

Jun 2016 - Feb 2018, + two co-op terms

Frontend developer, using TypeScript , C# , LESS , React , Redux , ASP.NET , SQL , Redshift .
Developed applications that needed a UI, based on text specifications from managers or PDFs from designers, creating the UI with React , TypeScript and AngularJS , the middle-tier in C# , and integrating with the backend (SQL , Redshift , BigTable , HTTP Endpoints), sometimes writing the backend as well.

Harris Broadcast

Sept 2013-Jan 2014 (co-op)

Frontend developer, using KnockoutJS , Java , C# , Silverlight , WPF .
Rewrote Digital Turnaround Processor Silverlight application as an HTML5 site from scratch, with the frontends in KnockoutJS and the backend in Java . Helped ship KnockoutJS UI for lower thirds render server.

Sony Network Entertainment International

May 2012 - Sep 2012, Jan 2013 - May 2013 (co-op)

Windows developer, maintaining mammoth (millions of lines of code) C++ legacy application, adding new features and fixing old bugs.

Code samples and demos at QuentinBrooks.com