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# David Margolies

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## EXPERIENCE

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**Senior Software Engineer** *Boosted.ai* Chicago, IL (Remote) Mar 2022 – Jul 2023

- Built 3 new pages for Boosted Insights platform using JavaScript, React, React Redux, React Router, React Query, React Table, Material UI, and React ChartJS
- Designed GraphQL schemas and built GraphQL queries in Java that connected data from gRPC microservices, REST Endpoints, and the PostgreSQL database using Spring for GraphQL
- Mentored 2 co-op students, including demonstrating how to write reusable components and how to use the React hooks effectively
- Debugged front-end and server-side issues while on-call using PagerDuty, Sentry, CloudWatch Logs, and by analyzing the Amazon RDS for PostgreSQL database

**Director, IT Architecture** *E\*TRADE* Chicago, IL Nov 2020 – Feb 2022

- Founding member of the JavaScript Architecture team, which provides best practice documentation, code review, debugging assistance, and maintains the react application template and shared components
- Developed a React Native application for both web and desktop for displaying real-time quotes
- Implemented the Mini Option Chain and updated the shared Option Chain React component. Provided code samples to teams for consumption and fixed installation issues.

**Principal, Software Engineering** *E\*TRADE* Chicago, IL May 2017 – Nov 2020

- Led a team of 8 front-end developers building the EASConnect application, a platform for investment advisors written in React. Developed project architecture, coding standards, functional components, and custom hooks.
- Principal Engineer responsible for development, code review, merging, and deployment into QA environments of the Power E\*TRADE trading platform written in React and MobX
- Completed the Spectral Analysis feature which shows the expected outcome of an options strategy over time given an implied volatility. Increased the graphic resolution and performance by using web workers.
- Developed the Quantity Assistant feature which allows holders of group accounts (such as Registered Investment Advisors) to allocate trades to individual accounts by parameters such as account value or buying power

**Senior Software Developer** *ClairVista LLC* Chicago, IL Nov 2015 – May 2017

*promoted to Senior Software Developer from Software Developer Nov 2016*

- Modernized ClairVista's web-based video chat application with ES6, React, and Redux and added Babel to the build pipeline
- Implemented string translations using i18next and configuration management using convict (node-convict), replacing a global-variable based approach
- Added an ActiveMQ client to a C# WebRTC Selective Forwarding Unit (SFU) and wrote a JavaScript front end built with React and Webpack using the ActiveMQ stomp connector and to communicate with the SFU over websockets
- Updated Java back end and wrote SQL to support 2 versions of an API request

**Software Engineer** *Sky Road LLC* Chicago, IL Aug 2015 – Nov 2015

- Implemented user interfaces using Java, Swing, and JIDE
- Updated back end code to bring in data from GigaSpaces necessary to complete user interfaces

**Software Developer** *ClairVista LLC* Chicago, IL Feb 2014 – Aug 2015

- Architected and developed a web application for setting up users with ClairVista's web-based video chat service using Backbone.js, RequireJS, Sass (CSS), and Bootstrap. Integrated with a Flash application to test camera and microphone device accessibility using SWFObject. Developed the build system using Grunt.js and included connect, watch, and live-reload plugins to ease the development workflow.
- Updated a JavaScript application to use Browserify and reduce the reliance on global variables
- Made full stack changes to the management application including writing and updating client side ExtJS code, modifying server side Java code, and writing a SQL update script

**Consultant** *IBM* Chicago, IL Sept 2012 – Feb 2014

- Developed web pages using jQuery, Bootstrap, the Dojo Toolkit, and Backbone.js
- Worked with senior developer to build tools to assist with document and custom object migration to FileNet using Java and Oracle SQL, and wrote unit tests with JUNIT

- Designed and developed command line tool to generate documentation on demand using Ruby and Embedded Ruby with HTML and CSS
- Created Bash scripts to check document and custom object migration progress using Oracle SQL\*Plus and scheduled with cron
- Performed Production Support and Linux Administration duties including stopping and starting processes and troubleshooting FileNet errors in a Red Hat Linux environment
- Worked with Oracle DBAs and Database Developers to organize test scenarios and troubleshoot test cases
- Developed iOS application to automate mortgage process using Objective-C
- Worked with outside contractors to develop PDF editing functionality on the iPad
- Consulted with User Interface Designers and User Experience professionals for iPhone interface
- Developed lists, managed user permissions, and administered groups in SharePoint
- Performed data lineage and helped to create a data dictionary for financial data

**Engineering Intern** *Terumo Cardiovascular Systems* Ann Arbor, MI May 2011 – Aug 2011

- Wrote a Microsoft Visual Basic for Applications macro for transferring project status data from an Excel spreadsheet into a PowerPoint presentation
- Developed a web application for displaying project status data using Google Web Toolkit and Scriptaculous via JavaScript Native Interface for the front end and Java EE for the back end

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## EDUCATION

**Washington and Lee University** Lexington, VA May 2012

*Bachelor of Science in Physics-Engineering and Bachelor of Arts in Computer Science*

- Overall GPA 3.415, Physics-Engineering GPA 3.349, Computer Science GPA 3.692
- Robert E. Lee Honor Scholar, AT&T Academic Scholar, 34 ACT
- Information Technology Advisory Committee

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## TECHNICAL SKILL AND TOOLS

**Operating Systems:** Linux (Ubuntu, Fedora, Red Hat), Mac OS X, Windows

**Programming Languages:** Java, JavaScript, Objective-C, Python, Ruby, TypeScript

**Web Development:** Ajax, Babel, Backbone.js, Bootstrap, Browserify, CSS/SCSS, ES6, Google Web Toolkit, Grunt, Handlebars, HTML, jQuery, MobX, React, Redux, REST, RequireJS, Ruby on Rails, Underscore.js

**Data:** Hadoop, MySQL, Oracle, PostgreSQL

**Other Tools:** Bash, Cron, gRPC, IntelliJ, Eclipse, Matlab, Vi/Vim