Nathaniel Blumberg

A savvy software engineer and team leader with over 20 years of experience. Blending coding, design and usability to produce intuitive software while using communication, documentation, and education to create highly performing engineering teams.

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Online resume

Skills

Access, **Adobe Analytics**, **Adobe Target**, **Agile**, **AJAX**, Akamai, **AMD**, **Angular**, API Gateway, AppleScript, ASP, Aurora, **Babel**, **Backbone**, **Bootstrap**, Bugzilla, **C**, **C++**, **C4**, **Chrome**, Cloudflare, **CloudFormation**, CodePipeline, **CommonJS**, **Confluence**, **cookies**, **CORS**, **CSRF**, **CSS**, CVS, cwRsync, **CXF**, DB2, DevTools, Dojo, **dotCMS**, **DynamoDB**, e-hawk, **Eclipse**, ECR, ECS, **Edge**, **ehcache**, EJB persistence, ElasticSearch, **ESLint**, **Excel**, Facebook Graph API, **Facebook Webhooks**, Figma, **Firefox**, Firehose, **Flash**, **Flex**, FlinkCEP, FreeMarker, **G Suite**, **git**, **github**, **Glance**, Gloo Edge, Gloo Mesh, **Google Analytics**, **Grafana**, Graphite, **grunt**, **Handlebars**, Helm, **HTML**, httpd, **IAM**, **IE**, **Illustrator**, ImageReady, InCopy, **IntelliJ**, **Istanbul**, **Jasmine**, **Java**, **JavaScript**, **JBoss**, JDBC, **Jenkins**, **Jest**, **jetty**, **JIRA**, **JMX Console**, **jQuery**, **jQuery-UI**, **JSDoc**, **JSON**, **JSONP**, **JSP**, **JSTL**, **JSX**, **JUnit**, **karma**, Kinesis, **Lambda**, **Lerna**, **localStorage**, **Lucene**, Material UI, **Mockito**, mPulse, **Mustache**, **mvn**, **New Relic**, **node**, **npm**, **nvm**, **Optimizely**, **Photoshop**, **plantUML**, **postMessage**, **PowerPoint**, **Protractor**, puppet, RabbitMQ, RCS, **React**, **RequireJS**, **REST**, **S3**, **Safari**, **SASS**, **SCSS**, Selenium, **sessionStorage**, SOAP, **SourceTree**, Splunk, **Spring**, **SQL**, **SQS**, **StatsD**, styled components, **svn**, Tealium, Tiles, **Tomcat**, Trello, Twiddle, **TypeScript**, UML, V8, VBScript, Velocity, Verdaccio, VersionOne, Visio, Visual Studio, VSS, **Webpack**, **Word**, **wro4j**, WSDL, **XML**, **XPath**, **XQuery**, **XSLT**

Experience

HubSpot   📅 June 2022 - Present

Staff Software Engineer

- Work on frontend build tooling supporting the HubSpot engineering organization.
  - **JavaScript, node, TypeScript**
- Work on in-house alternative to npm to support HubSpot's "evergreen" model that automatically updates package dependencies to their latest versions.
  - **JavaScript, node, S3, TypeScript**
- Work on UI displaying the HubSpot frontend package ecosystem and package interdependencies.
  - **JavaScript, node, React, S3, TypeScript**
- Set up npm packages for consumption through in-house package manager.
  - **JavaScript, node, npm**
- Address npm, AWS, and Blazar security issues.
  - **IAM, JavaScript, node, S3**, Verdaccio

- Analyze jasmine/Chrome V8Coverage data to produce code coverage reports for HubSpot frontend packages.

  Chrome, DevTools, **Istanbul, JavaScript, node**

Constant Contact

(formerly Endurance International Group, Inc., acquired Constant Contact in 2016, went private again in 2021)

Advisory/Senior Principal Software Engineer
📅 August 2016 - May 2022

Most senior development role within the organization. Responsibilities also include those of prior positions.

- Architectural design of software across teams in a distributed, micro-service environment.
- Act as a member of the architectural group, submitting and steering large-scale initiatives for the engineering organization. Act as the leading member of the front end architectural sub-group.
- Serve as technical lead for several areas of the company code base: front end architecture, front end design system, microservice data aggregation and caching, marketing campaign listing, site navigation by configuration, universal js code, and user tracking.
- Spearhead technological solutions to improve application monitoring, performance, code coverage, automated testing, security, and development velocity.
- Cultivate efficient teams from the ground up by mentoring junior team members through their technical and engineering growth until they are independent high performers.
- Provide leadership and stability during multiple periods of engineering and product management team transitions.
- Promote technical education, documentation, and best practices across the engineering organization.
- Provide APIs, web forms, standards & best practices for marketing to provide messaging and analytics to collect data in product without disrupting engineering development or application stability.

Principal Software Engineer
📅 August 2014 - August 2016

Generally, the most senior development role within a team. Responsibilities also include those of prior positions.

- Architectural design of software within the team's purview.
- Represent the engineering team in technical matters when liaising with other teams inside and outside the engineering organization.
- Determine and prioritize non-feature-driven engineering work within the team.

Senior Software Engineer II
📅 April 2013 - April 2014

- Responsible for common front end functionality throughout the product and supporting microservices: e.g. site navigation by configuration, help, marketing/sales/support messaging, and user tracking.
- Responsible for the hub pages of the product that list user activity and branch into the various wizard flows, as well as supporting microservices.
- Act as mentor to other team members.
- Facilitate team velocity (a measure of productivity under Agile development).

Senior Software Engineer
📅 April 2011 - April 2013

- Responsible for the email wizard UI and microservices.
- Lead a project within the team.
- Oversee team code quality.

Key projects

Onboarding
📅 January 2016 - December 2016

- Designed and implemented several A/B tested variations of post-sign up questionnaires segmenting users into profiles, and providing different "first steps" guidance by profile.
  `Jasmine, JavaScript, Jenkins, jQuery, JSON, karma, Spring`

Homepages   📅 January 2016 - December 2016

- Designed and implemented a framework to, by configuration, easily spin up a series of different initial product experiences and homepages for new customers targeting specific market segments. Implemented A/B testing a tracking withing the different experiences.
  `Angular, Jasmine, JavaScript, Jenkins, JSON, karma, Spring`

Marketing campaigns pages   📅 January 2015 - December 2021

- Creat new home and listing pages unifying the separate products (email, events, social campaign, survey, etc.) into a single interface. Aggregate data from almost every microservice at the company into a single, high-performing, mobile-responsive page view. Help lead disparate teams to a common data model. Create entry points into the wizard flows for each product. Implement an automated onboarding checklist for new users. Support numerous user experience A/B tests.
  `Adobe Target, AJAX, Akamai, Angular, Cloudflare, cookies, CORS, CSS, CXF, ehcache, ESLint, grunt, Handlebars, HTML, httpd, Istanbul, Jasmine, Java, JavaScript, JBoss, jetty, jQuery, jQuery-UI, JSONP, JSP, karma, npm, nvm, Optimizely, puppet, SASS, sessionStorage, Spring, Tomcat`

Distributed UI framework   📅 January 2012 - Present

- Architect and implement a configuration and iframe based web portlet framework to allow the company to break up the single "monolithic" application into separate teams, repositories, technology stacks, and deploy schedules while maintaining a unified UI. Architect and implement an accompanying JavaScript API that is loaded and consumed in all applications and windows to provide common, inter-application and cross-domain functionality and communication. Support in-browser overrides of configuration data for development and testing against locally running applications.
  `AJAX, Akamai, AMD, Babel, Cloudflare, cookies, CORS, CSS, ESLint, Glance, Google Analytics, grunt, HTML, httpd, Istanbul, Jasmine, Java, JavaScript, JBoss, Jenkins, Jest, jetty, JMX Console, jQuery, jQuery-UI, JSDoc, JSONP, JSP, karma, Lerna, localStorage, npm, nvm, Optimizely, postMessage, puppet, React, SASS, sessionStorage, Spring, Tealium, Tomcat, Twiddle, Webpack, XML`

Earlier experience (including video game development and tool scripting) available upon request

Education

![Tufts] **Tufts University**   👤 *419 Boston Avenue Medford MA 02155*

📅 1998

Bachelor of Science | Computer Science, Human Factors & Ergonomics concentration | Summa cum laude

References available upon request