



# Sinan Bolel

## Principal Software Engineer

### Contact

info@aquia.us

### Education

2013

Bachelors of Science

Northwestern University

#### SUMMARY

With over a decade of progressive experience in software engineering and a deep specialization in UX engineering and design, I have excelled in driving and shipping user-centric solutions across a wide breadth of industries. My journey from a Web Developer to a Principal Software Engineer across various esteemed organizations and a wide breadth of industries showcases my capability in architecting intuitive user interfaces, mentoring developers, and leading innovative projects that significantly enhance user engagement and operational efficiency.

#### RELEVANT EXPERIENCE

##### Principal Software Engineer

Aquia Inc. | Apr 2022 - Present

- Spearheaded the design, implementation, and delivery of user experiences, driving the UX strategy for multiple products.
- Architected and developed [SBOM Harbor](#)'s frontend, a tool for governance teams who need to collect, manage, and analyze software bill of materials (SBOM) from SaaS vendors.
- Led the creation of a 508-compliant design system with React and Material UI, significantly enhancing accessibility and UX across internal applications.
- Designed infrastructure to securely integrate Salesforce in AWS GovCloud and APIs in commercial AWS, developed technical specifications and presented to state and federal agencies for approval. Drove final delivery.
- Led cost analysis and technical specification for the integration, ensuring budget alignment and readiness for high-volume data transfer scenarios.
- Led the design and implementation of a Python-based engineering metrics reporting tool, integrating GitHub and Jira APIs to automate data extraction and reporting, resulting in enhanced security, scalability, and usability for program managers across teams.
- Volunteered for on-call and as primary on-call engineer, managed releases, triggered deployments, and triaged incidents.

##### Senior Software Engineer

Chartbeat Inc. | May 2021 - Mar 2022

- Led the frontend architecture and feature implementation of Contempo, a subscription service for content planning and analytics.
- Rapidly delivered key UX features that enabled the first 100 customer activations during Alpha and Beta phases of the company's first self-service subscription product.
- Refactored a large React application, replacing an outdated design system with Material UI, reducing the size of the codebase by 50% and improving development speed.
- Published new documentation for local development and build processes that reduced the onboarding of new developers to the project.
- Mentored 2 junior front-end developers in strengthening JavaScript, React, and Angular skill sets. Reviewed 73% of pull requests by the front-end team.

##### Software Engineer

Nissint Technologies | Jul 2020 - May 2021

- Developed internal web applications that enhanced operational efficiency and reduced cloud costs by transitioning monolithic backends to serverless architectures.
- Designed user experiences for automation tools, significantly improving the productivity of recruiting processes.
- Reduced cloud operational cost by rearchitecting monolithic backend as serverless services.

**RELEVANT EXPERIENCE (CONT.)****IT Programmer Analyst Lead, Sr. Data Analyst**

State of Maryland Department of Information Technology | Sep 2019 – Jul 2020

- Drove technical implementation of technology business management (TBM) solution to make IT financials transparent for customers of the State of Maryland.
- Developed standard operating procedures for cross-functional teams to deliver technical consumption data into Apptio TBM.
- Designed and implemented robotic process automation (RPA) for financial data processes to reduced full-time employee hours and Y (tbd) dollars spent on manual tasks.

**Web Developer**

Bethesda Softworks | Jun 2017 – Jul 2019

- Implemented new features and bug fixes for the Bethesda.net platform's front-end applications.
- Migrated Bethesda.net services built on legacy JavaScript framework to React.js microservices.
- Designed and implemented JS library to enable React microapps to run alongside legacy services.
- Delivered React.js training to UX team; drove specification of React development team standards.
- Drove development of standard operating procedures in site reliability engineering for UX team.
- Resolved business-critical incidents as the on-call engineer during global video game launch.

**Senior Developer**

Green Key Technologies | Nov 2016 – Mar 2017

- Engineered VOIP app to enable calling/push-to-talk with an unlimited number of users.
- Reduced app size by 90% (10MB → 1MB) by transpiling/bundling using Babel, UglifyJS, Gulp.
- Reduced app load time by 90% (7s → 700ms) implementing build tools; moving assets to CDN.
- Implemented continuous delivery for Windows, MacOS, Android, iOS w/ CircleCI, AppVeyor.
- Deployed 15-node DC/OS Mesos cluster on Google Compute Engine for data science team.

**Full Stack Software Engineer**

Strike Social | Jul 2016 – Nov 2016

- Engineered Angular 2 app for managing YouTube/Facebook campaigns via one interface.
- Implemented Firebase/WebSockets to provide optimization engine with user data in realtime.
- Interviewed and onboarded a new team of 3 developers, 2 cloud engineers with CTO.
- Drove sprint planning, retrospective meetings; assisted Scrum master in managing the team.

**Development Manager**

Rocket Wagon | Apr 2016 – Jul 2016

- Designed, developed; shipped blog engine w/ Node.js, Contentful for global client in 2 weeks.
- Engineered open-source library for instantiating 360-panoramas by including 1 HTML tag.
- Implemented Node.js static page generator to allow the client to create marketing pages without engineering effort, reducing the time to take a page live in production from 1 week to 1 day.

**Consultant**

One Six Solutions | Jan 2016 – Apr 2016

- Developed AngularJS company website, reducing load time by 70% from 1 second to 300ms.
- Implemented open-source Node.js module for connecting Harvest HR data to Xero software.
- Documented internal processes, employee guidelines, and internal code style guide.

**Co-founder**

Pyro Platform | Dec 2014 – Aug 2015

- Engineered open source browser IDE for building cross-platform apps w/ AngularJS, Firebase.
- Designed the front-end of Pyro Platform and composed templates (HTML) and stylesheets (SCSS).
- Executed user acquisition plan for a 60% conversion out of 110 pre-alpha signups.

## RELEVANT EXPERIENCE (CONT.)

### Co-founder

Besso Labs | Jan 2014 – Dec 2014

- Led development of 6+ cross-platform apps in JavaScript with Firebase, Ionic Framework.
- Mentored new engineering interns with both full-stack development and database design.
- Started Pyro to help developers create realtime apps quickly through the browser.

### Program Manager Intern

Microsoft | Jun 2013 – Sep 2013

- Responsible for ideation, development, and shipping of ad experience.
- Developed specifications for a new advertising experience for Outlook.com.
- Led sprint planning and retrospective meetings in shipping novel advertising experience for Outlook.com.

### Engineering Intern

SwipeSense, Inc. | Jun 2012 – May 2013

- Responsible for contributing to Ruby on Rails API for wireless sensor networks.
- Refactored Arduino code used in enabling ingenious wireless sensor networks.
- Reported web development learning progress to CTO and studied web systems.

### Lead Consultant

Northwestern University IT | Sep 2010 – Jan 2012

- Supervised teams of 5–10 consultants and assisted in solving IT issues on the school campus.
- Fostered learning as Training Coordinator; developed training material for the consultant team.

### Associate Consultant

Northwestern University IT | Oct 2009 – Sep 2010

- Provided IT support to university staff and students via email and in-person.

### Web Developer

Freelance | Jan 2007 – Dec 2009

- Designed and developed informative websites for local small businesses and organizations.
- Implemented static landing pages using HTML, CSS, and JavaScript with JQuery
- Implemented Wordpress website for non-profit