

# Chris Boston

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## SOFTWARE ENGINEERING EXPERIENCE

### R&D Software Engineer

04/2021 – present

*Sisense: software engineering for business intelligence and data analytics*

New York, NY

- Create full-stack (70% front-end) agile web solutions with TypeScript, Node, and JSX within a functional React framework.
- Build modular SDK components for flagship product ComposeSDK, a composable, dev-first analytics toolkit.
- Drive implementation and release of business-critical product Sisense Fusion Notebooks, a code-centric, fully customizable dashboard experience for data analytics and business intelligence customers with Kubernetes-based microservices.
- Provide reliable, incremental updates to SaaS software with Jenkins-based CI-CD, actively used by thousands of clients.
- Tech lead for design, development, and release of brand new public-facing Sisense.dev documentation site for developers, using Vue and VuePress for docs automation, hosted in AWS with Apollo GraphQL APIs and a MongoDB database.
- Interview potential engineering candidates; mentor newer engineers with technical shadow program.
- Plan large technical projects and delegate engineering tasks to multiple international teams across vastly different time zones.

### Software Engineer

06/2017 – 04/2021

*Leidos: engineering and technology for aerospace, healthcare and civil infrastructure*

Gaithersburg, MD

- Develop and support full-stack (60% front-end) agile web products visualizing trends in national flight data for the FAA's air traffic control automation system, using a sharded MongoDB backend, RESTful Python Flask web servers, and React UIs.
- Own complex technical projects from inception to release, overseeing system design, implementation, testing, and launch.
- Communicate technical details with non-technical audiences to determine requirements, track progress, and lead collaboration between developers, systems engineering, and FAA client stakeholders.
- Rebuild legacy web pages from Perl and static HTML to modern, hierarchical Python and Jinja templates.
- Automate deployment and maintenance of distributed web applications with SSH, RDP, and Bash scripts on Linux boxes.

### Software Development Intern

04/2015 – 08/2015

*Ally Financial: online banking and technology*

Detroit, MI

- Increase sales efficiency by developing custom-designed Salesforce.com Apex web modules within Eclipse IDE.
- Spearhead code standardization projects for all Apex and Java code corporation-wide, present to engineers and executives.

### Laboratory Manager & Graphic Designer

09/2011 – 08/2013

*University of Michigan Institute for Social Research: clinical psychology and sociology research*

Ann Arbor, MI

- Formulate experiments to study and reduce implicit bias in the STEM workplace; lead meetings, mentor new hires.
- Become aware of my implicit biases so to combat their effects and endeavor to limit their influence on my perception.

## EDUCATION

### University of Michigan

Graduation: 04/2017

- B.S. in Computer Science – Track concentrations in Web Design and Software Engineering

Ann Arbor, MI

### Notable Coursework

- Software Engineering • Full-Stack Web Development • Artificial Intelligence • Calculus I & II • Data Structures & Algorithms • Statistical Data Analysis • Programs & Databases • Computational Theory • Video Game Design • *Full Transcript Available*

## TECHNICAL SKILLS

### Languages

JavaScript (React, Vue, Node, TypeScript), Bash, C, C++, C#, Python (Flask, Django, Jinja), Core Java, MongoDB, SQL, MySQL, HTML5, CSS, Stylus, SCSS, Tailwind, GraphQL (Apollo)

### Software

Git, Docker, Eclipse, MS Visual Studio Code, .NET Framework, AWS (IAM, Amplify, ElasticBeanstalk), Unity Engine, Jenkins, Adobe Suite, JIRA, Linux, Windows, MS Office, Kubernetes

### Concepts

Full Stack Development, Front End Development, AJAX, Web Servers, RESTful API Design, Web UI Design, CI-CD, Data Structures & Algorithms, Object-Oriented Programs, Event-Driven Programs, Deployment Automation, System Design, Complexity Analysis, Unit Testing, Digital Graphic Design, Distributed Software, SaaS, Video Game Design, Agile Methodology

## INDEPENDENT PROJECTS

### HabitaSync

11/2018 – 09/2019

*Creator*

Washington, DC

- Design and develop web utility HabitaSync, a cloud-based app to sync Habita with Google Reminders.
- Build Glitch-hosted Python webservers with RESTful APIs, using event webhooks and Google Scripts cloud cronjobs.

### MediVision, University of Michigan

12/2016 – 04/2017

*Co-Creator & C# Application Developer*

Ann Arbor, MI

- Created scalable live video streaming platform MediVision, a prototype web service and Microsoft HoloLens app.
- Designed MySQL database, Python webserver, Jinja templating, and an augmented reality app built with C# in Unity engine.