

# JASON BONTHRON

[www.bonthron.com](http://www.bonthron.com)

**Full Stack Engineer** with over **15 years** of experience. Expert in **web technologies**, architectures, and responsive design. Software **craftsmanship** in Object Oriented and Functional Programming. Specializations in Functional Event-Driven systems, Interface Design, JavaScript Simulations and Games. Cares about humans.

## LANGUAGES

C#, F#, TypeScript, JavaScript, HTML 5, CSS 3, Python, Lisp

## TOOLS

- React, Node.js, Redux, TypeScript, HTMX-hypermedia, GraphQL, CouchDB
- Tailwind, Tachyons, Kendo UI, RxJs
- .NET Core (C# F# LINQ), Swagger, Dapper, OData
- AWS: EC2, S3, Lambda
- AZURE: Service Fabric, Cosmos, SQLServer
- Photoshop, Illustrator, Jira, Azure DevOps, GitHub
- Git, VS Code, Emacs, Bash

## EXPERIENCE

Law School Admissions Council

*Software Engineer*

8/2021 – 8/2023

Founded in 1947, LSAC is known for administering the Law School Admission Test

- Developed and maintained a cloud-based platform used by hundreds of universities to manage and build their pipeline of law school applicants
- **Modern Tech Stack** — React & Redux Front End, Microservice REST-based architecture, .NET Core, C# application code, Azure SQLServer, CosmosDB
- Managed services with Microsoft Azure cloud: Pipelines, deployment, logging, and monitoring including Kusto(KQL), OData, and OpenAPI management
- Developed custom, accessible **React** components with **TypeScript** and Redux
- Application development with Service Fabric, Azure Cloud, and .NET Core
- Created original user interfaces with an emphasis on responsiveness with React and CSS

- Created powerful data rich information displays capable of searching, sorting, and updating hundreds of thousands of records with highly nested React components
- C# and SQL programming using .NET Core for data-driven APIs capable of processing large volumes of admission data with an emphasis on **speed and correctness**
- **Business critical system** – Total commitment to system Up-Time, problem resolution, and communication. Participating law schools are heavily reliant on these systems.  
SOC 2 Compliant. WCAG 2 Level AA Compliant

## ETS, Educational Testing Service

*Principal Software Developer*

9/2009 – 7/2023

ETS is the world's largest private educational testing organization, known for administering the SAT, GRE, & TOEFL exams.

- **Tech Lead** managing engineers and UX professionals
- Developed custom software to conduct **international** R&D with expert scientists and NGOs
- Designed a publishing system and **architecture** for delivering tests internationally using Typescript, React, **.Node.JS**, CouchDB, **GraphQL**, Tailwind
- Created educational Games and Simulations with HTML 5, Canvas, and functional JavaScript
- Developed and maintained web platform for delivery of large-scale tests using C#, .NET, JQuery
- Expert in responsive web design: **HTML 5**, Flexbox, and CSS 3
- Developed functional event-driven systems for simulations with F# and .NET Core
- Created data analysis pipeline using .NET Core, C#, Python, and R
- Led projects for:
  - U.S. Dept of Education
  - Organization for Economic Cooperation and Development (OECD)
  - National Center for Educational Statistics (NCES)
  - National Assessment of Educational Progress (NAEP)
- Developed dynamic and accessible web applications for European and Asian audiences in 76 languages with in-house translation system (PHP)
- Enthusiastic mentor to direct reports and junior developers

## RCG Information Technology

*Consultant*

2007 – 2009

- Developed advanced computer-based simulations for the National Assessment of Educational Progress (NAEP) with JavaScript and PHP
- Programming and consulting on computer-based Simulation development with JavaScript, C#, and .NET framework

## AOL TIME-WARNER

*Web Developer*

2006 – 2007

- Staff engineer for AOL Movies, AOL Music, Moviefone
- Developed web applications using TCL (Ousterhout), HTML, Bash, and JavaScript
- Developed code for the Moviefone IVR phone system
- Created web-based interactive web simulations in JavaScript

## INTEL

*Web Developer*

2003 – 2006

- Web programming and graphic design for INTEL.com using HTML, CSS, and Flash
- Lead developer for INTEL's 2006 site redesign

## Incurrent Solutions

*Web Developer*

2001 – 2002

- Developed secure online banking applications for credit card issuing institutions including: Wells Fargo, Wachovia, VISA, Sears, and Target
- Architectures developed with ASP, HTML, XML, and XSLT

## EDUCATION

RUTGERS University, New Brunswick NJ

*B.A. Jan 1998*

## LINKS

<https://www.linkedin.com/in/bonthron>

<https://www.bonthron.com>

<https://git.sr.ht/~bonthron>