

Full Stack Web Developer with a medical physics background, focusing on building easy to use applications. As a medical radiation dosimetrist I Successfully led the implementation of QA for the 4D imagery dedicated to treatment planning of moving organs in Arras Hospital. My passion for web development and its extraordinary possibilities especially in the medical field, led to successfully pursue the Full Stack program of Harvard University continued Education. Skills in JavaScript, CSS, HTML, Bootstrap, and React allows me to develop more efficient apps and websites.

## EDUCATION

**MIT School of Humanities, Arts, and Social Sciences**

MS: Data, Economics, and Development Policy.

**Cambridge, MA**

August, 2019 -

Current

**University of Nice Sophia Antipolis**

BA: Medical Radiation Dosimetry &amp; Radiation Protection. GPA 3.3

Relevant Coursework: Medical Physics; Macroeconomics.

Honors: Model EU Club; Honors Student; Pi Delta Phi member; Sciences

Faculty's Valrose department's pick for the Annual sciences challenge.

**Nice, France**

August, 2015

**Roxbury Community College**

AA: Biological Sciences. GPA 3.42

Honors: Phi Theta Kappa Honor Society (Secretary); Best Biology Student (2011).

National Scholar Laureate; Dean List (3 Semesters).

**Boston, MA**

May, 2012

## TECHNICAL SKILLS

Microsoft Excel; Microsoft Word; Microsoft OneNote; Microsoft Forms; Smart sheet; Microsoft Garage project (My Workspace); Microsoft PowerPoint; Outlook; Visio; Jira; Asana; Trello; Excellent customer service, analytical and organizational skills; Teamwork Ability; Work independently and under pressure; Research; Attention to details, ability to multitask.

**Databases:** Mongo DB; Mongoose; MySQL.**Front End:** Html; CSS; JavaScript; JQuery; AJAX; React; Bootstrap.**Server Side:** Node.js; Express; Bcrypt; Sequelize; SQL.**OS:** Win32, Unix, Linux.**SAP:** SAP BW Service-API; SAP BW Operational Data; SAP HANA SDI and SLT; DB Connect; Staging-BAPI; Open Hub Destination; SQL for HANA.**SAP BusinessObjects Reporting:** Information Design Tool; Bi LaunchPad; Explorer, WebIntelligence; Crystal Reports.**Enterprise Data Warehousing:** InfoObjects; InfoProvider; ETL; Administration, Process chains, Delta Merge; Information Views.**Query Design and Analysis:** BEx Query Designer, Key Figures, Characteristics, structures, hierarchies, variables. OLAP-Client.**Projects and Modeling:** Data Modeling; LSA++; Logical Model; Bw Model; Bi Content.**Physical Model** in SAP BW on HANA, in SAP HANA, and Mixed Scenarios in SAP BW on HANA.**Application Design:** SAP BW Analysis Process; SAP BusinessObjects Design Studio; SAP BusinessObjects Lumira.

## PROJECTS

### Trivia game

2019-2020

This app is based on the longtime favorite game show Family Feud.

A single user will play the trivia game.

3 rounds, 6 possible answers with corresponding scores.

Objective to return all answers in the allotted time frame.

Compete for the top rank.

User has the option to create, update and delete survey question suggestions.

#### **Technologies Used**

Front End: Bootstrap, CSS, HTML, JSON, Modal

Back End: JS, JQuery, Reg Ex, JSON, Local Storage, Node.JS

DB: MySQLWorkbench, Sequelize and Express.

API: SQL (Questions, User, User Scores)

Authentication: Passport.js

Deploy: Github <https://bavouasoft.github.io/TriviaGame/>

### React Google Books Search:

2019 -2020

Using React components and lifecycle methods to query and display books based on user searches. This application is using Node, Express, React-router and MongoDB so that users can save articles to read later.

**Technologies Used** React.js, Node.js, MongoDB, Express.js

Deploy: Heroku <https://achille-book-app.herokuapp.com/>

### Crystal-collector app

2019-2020

This front end Application project highlights using jQuery to dynamically update the HTML page on the application with the jQuery library.

The page was built using Bootstrap for responsiveness.

This application contains alerts and the logic has timeouts to allow the final scores to render before the alert executes.

#### **. Technologies Used**

HTML5 | CSS3 | JavaScript | jQuery | Bootstrap.

Deploy: Github <https://bavouasoft.github.io/Crystal-Collector/>

### I implemented the Quality Assurance For Radiation Therapy Treatments for Linac :Pitié Salpetriere Hospital

2016-2017

#### **\*Reference/baseline data: creation of a routine reference dataset:**

Develop, Implement guidelines for all critical tests.

Beam data collected at the time of commissioning is used as the reference data.

Ensure that during clinical usage the delivered and calculated doses agree within 5% including the uncertainty associated with absolute calibration.

Usage of Water tank for beam measurements.

Established secondary measurement system for monthly measurements and a tertiary system may for daily measurements.

#### **\*Creation of a routine reference dataset / Isocenter**

Perform annual beam measurements and ensure regulation Compliance.

Compare results of annual measurements to TPS data.

Ensure results are within acceptable tolerance and resolve differences .

Define and establish location of isocenter of the accelerator, both the mechanical and radiation isocenter and the congruence of the two points.

## EXPERIENCE

### **Pitié-Salpêtrière University Hospital**

Medical Radiation Dosimetrist

**Paris, France**

Oct 2015 – August 2019

- Develop a Treatment Plan.
- Ensure that both the dosage and use of equipment are correct.
- Provide Technical Support.
- Calibration of machines and proper storage of radioactive material.
- Maintain and Perform Quality Assurance for all radiation treatments and equipments.
- Meticulously log treatment data and perform weekly chart checks, noting any errors and adjusting therapy plans accordingly.

### **Massachusetts Dept. of Developmental Services**

Lead ABA Counselor

**Reading, MA**

Sept 2012 – Dec 2014

- Oversee physical plant concerns of the site and assign responsibilities to each shift of ABA Counselors.
- Act as an assistant administrative representative for the program.
- Employed various speech and Language therapies as well as behavior management to help children with Autism and Spectrum Diseases develop social and life skills.

## INTERNATIONAL HONORS / CERTIFICATES

### **Harvard Extension School: Certificate**

Web Development / Full Stack.

**Cambridge, MA**

2019 – 2020

### **Brandenburg University of Technology: SAP Certified**

**Brandenburg Germany**

SAP BW on HANA - Data Acquisition and BusinessObjects Reporting.

Sept 2018

SAP BW on HANA – Dataflow and BusinessObjects Analysis.

SAP BW on HANA – Data Modeling and BusinessObjects Applications.

**PMI Certification** / **Java EE 7 Application Developer 1Z0-900**

In progress

## LEADERSHIP / ACTIVITIES

### **University of Nice Sophia Antipolis**

**Nice, France**

#### **Student Sciences Association (Co-Founder)**

Jan 2014

Helped found the campus' first SSA Club and participated in campus' first Nice Junior Colleges Convention.

### **Agricultural Farm (Owner)**

**Dschang, Cameroon**

Developed a sustainable agricultural farm in the town to provide locals and refugees fleeing armed conflict in the North and South West regions with free organic produce.

### **Interests:**

Cooking; Watching Animal Documentaries; Replaying favorite TV Shows, College Football, Recreational Civilian Drone Flight.