

# Sally Alvarenga

Full Stack JavaScript Developer | Biomedical Engineer  
sallyalvarenga35@gmail.com | (817) 771-5620

## EDUCATION

### Bachelor of Science in Biomedical Engineering

September 2016 – May 2020

University of Texas at Arlington

### Certification Full Stack Development

July 2021 – October 2021

Southern Methodist University

### Lean Six Sigma Green Belt Certification

February 2021

Certified by the Six Sigma Global Institute

## SKILLS

- Certified in Git, JavaScript, Node.js, React.js,
- Proficient in SolidWorks, MATLAB, ExoCAD, mmm QuickBooks and Management Skills Autodesk® Netfabb®, Object Studio
- ES6, Express, MongoDB, MySQL, Sequelize, AJAX, Unit Testing
- Leadership Honors Institute Certified

## PROJECTS

- **Grey's Pharmacy** –

A website that can host the information for multiple doctors and their patients' corresponding medications. Patients can create a new account, or login account to view their medications and add them to a cart. Doctors can login and view all patients and add desired medications to the patient's account. Logout functions are used to ensure privacy.

**Key Skills:** Node.js server code, MySQL database manipulation, MVC layout

- **kTV Online** –

A fun application created by a team of 3 that can be used to karaoke by searching a song and retrieving the corresponding music video and lyrics.

**Key Skills:** terminal commands, DOM manipulation, RESTful API, and JSON parsing.

- **Capstone Project** - University of Texas at Arlington Senior Lab      Fall 2019 - Spring 2020

While assigned to the Multiplex Lateral Flow Paper Strip for Microbial Detection project I designed and fabricated a paper strip that could detect the presence of both E. coli and S. aureus at the same time with a budget of \$2500 and a three-person team.

**Key Achievements:** A paper biosensor using a direct ELISA complex, fluorescent quantum dots, and a multiplex lateral flow test strip. Reviving and culturing bacteria samples, designing varying 9 models of our device using SolidWorks and COMSOL, analyzing results to calculate efficiency, and practices used in a BSL-2 Lab Environment.

## WORK EXPERIENCE

- **Operations Manager and Office Manager** - Cadmus Dental LLC.  
Summer 2017 – 12/21/2020

As one of three core members of this startup dental technology company, I can confidently say that I have learned the basics of every aspect in a small business. I worked with two commercial 3D dental printers, by Stratasys® and Structo®, and upheld all required maintenance and cleaning. I learned CAD software, Autodesk® Netfab® and Object Studio®, to manufacture dental devices and models. Additionally, I operated two types of dental scanners commonly used in the dental industry. I also kept track of material/waste consumption and logged all production into FDA compliant records.

I acquired valuable management skills as the Office Manager of our lab. I handled all client billing and records through QuickBooks® and Microsoft Excel. I was the supervisor of eight technicians, entailing managing schedules, hours worked, and daily tasks for all members. I also assisted in the creation of many due diligence summary items and 510(K) certification documents/ records to track product/material inventory, productivity logs, and FDA compliance.

In addition to my production and office responsibilities I assumed much of the customer service and marketing responsibilities at our company. I worked closely with our international sales director to establish and maintain many client relationships. I reached out and answered questions of various customers via email, phone, and personal visits. I created almost all marketing and promotional material for both our company and our clients for the marketing of different products. My marketing skills include creating professional grade flyers, pamphlets, boxes design, social media posts, and the Cadmus website.

## LEADERSHIP EXPERIENCE

- **Student Governance Supreme Court Justice** Spring 2018 – Fall 2019  
Served on a hearing panel for student organizations requesting funding through the Program Assistance Fund, disputes in the other two branches of Student Government, and any election code violations during Campus Election.
- **Student Governance Chair of Election Supervisory Board** Fall 2017  
Organized and executed campus elections at UTA while increasing overall student participation and developing new event ideas to teach and promote information.
- **Vice President of Freshman Leaders on Campus** 2016 - 2017  
Assisted in organization, planning, and execution of various activities for over 50 members, as well as conducted weekly meetings with the leadership and general body

## LANGUAGES

- Spanish: Native Proficiency