

# Jonathan Joe

## Software Developer

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## Summary:

Offers a unique blend of an engineering background with software development for a strong foundation for critical thinking. Self-driven and motivated with a thirst for knowledge.

## Education

**Georgia Institute of Technology, Atlanta, GA**  
B.S. in Biomedical Engineering

August 2009 - May 2013

## DigitalCrafts - Full-Stack Web Development Program, Atlanta, GA

June – October 2019

Immersive 16-week course covering HTML, CSS, JavaScript, and Python, including an emphasis on cutting-edge frameworks like React/Redux and server-side technologies including Node.js, Express, and PostgreSQL.

## Featured Projects

**Senpai Search | senpai.jonathanjoe.xyz | github.com/JonathanDonJoe/SenpaiSearch** July 2019

- Anime themes site where users can search for openings and endings to various anime.
- Front-end development project integrating the Jikan API and Youtube API
- Built using HTML, CSS, and JavaScript

**Sweet Hub | sweet.jonathanjoe.xyz | github.com/JonathanDonJoe/SweetHub**

August 2019

- A social website designed to bring individuals together to enjoy their favorite desserts
- Full-stack application creating a RESTful API
- Built using Node.js, Express.js, PostgreSQL, HTML, CSS, and JavaScript

## Experience

### Georgia Institute of Technology, Atlanta, Georgia

*Capstone Senior Design Biomedical Engineering Team Leader*

Designed, modeled, and created a working prototype of the Free2Wii, a modified headset designed to allow tetraplegic patients full access of a Nintendo Wii controller:

- Led a multidisciplinary Biomedical & Electrical Engineering team by delegating tasks, managing group interactions, and facilitating goal-setting
- Maintained detailed documentation over the course of the project
- Biweekly consultations with client and with regular progress reports

### Emory University, Atlanta, Georgia

*Research Assistant in the Department of Neurosurgery*

Conducted *in vivo* studies on the effectiveness of microelectrodes verses macroelectrodes in Hippocampal Deep Brain Stimulation (DBS):

- Performed multiple DBS surgeries and perfusions on rats
- Collected, compared, and analyzed data from stained brain slices
- Completed basic hardware and software troubleshooting
- Adhered to IACUC guidelines and requirements

## Skills/Software

- Skills: JavaScript | HTML | CSS | Python | Node.js | Express.js | PostgreSQL | React | Java | MATLAB | 3D CAD SolidWorks | Microsoft Word | Microsoft Excel
- Leadership Skills: task-delegating, team-building, problem-solving
- Language Skills: Fluent in Cantonese Chinese, Elementary Spanish and Mandarin Chinese