

# LAURA NEFF

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## SUMMARY

Full-stack web application developer with a solid foundation in building websites with React.js, JavaScript, OAuth, Bootstrap, SQL, Java Spring Boot, Node.js, REST API, APIs and API Platform Development, IBM API Connect, IBM WebSphere Liberty, backend servers, MongoDB, and Firebase. In addition, I have built interactive Java programs for my employers and am proficient in Python and R for data science.

## TECHNICAL SKILLS

Java, jQuery, Restful Service Development (using IIB), IBM IIB, IBM API Connect, MongoDB, IBM WebSphere Message Queue, Agile, Scrum, Sprint Planning, Event Based Processing, OAuth, Java Spring Framework, Firebase, SQL, HTTP Client, JavaScript, Node.js, React.js, Express.js, HTML5, CSS3, Heroku, Chai.js, Mocha.js, Python, R, C, Assembly, MATLAB, LaTeX, familiarity with Mark Logic and SAFe Methodology, Artificial Intelligence, Data Structures, experience in system analysis, application program development, and other business and functional requirements that support a variety of software platforms and relevant interfaces.

## EDUCATION

**Emory University**, B.S. Computer Science Major, Class of 2021, 3.59 GPA.  
**Kinnelon High School**, Class of 2017, Top 5% Rank.

**Full-stack Web Developer Certificate, Columbia University School of Engineering**, NY, 2019.

A 12-week intensive program focused on gaining technical programming skills in JavaScript, Node.js, React.js, HTML5, CSS3, jQuery, Bootstrap, Firebase, MySQL, MongoDB, Express, Chai.js and Mocha.js. Program accepted only 5% of 12,000 students who applied and required a skills test.

**Emory Business Institute Program Certificate**, Goizueta Business School, 2018, 3.7 GPA.

Program focused on operations management, marketing, strategy, finance, communication, accounting, data management, social media, technical writing, inventions and entrepreneurship.

## LEADERSHIP AND WORK EXPERIENCES

**IT Application Developer**  
**Aetna, a CVS Health Company**

June 2020 – August 2020  
Remote

Part of the Scrum Application Delivery team focused on developing platforms for API development that other internal teams and companies can use to create APIs. Sole developer for a Java Spring REST client that runs on IBM WebSphere. The app is an API testing tool with an intuitive GUI devoted to cutting development time and thus technical debt by testing authorization code and token generation response, validity, and refreshment following different development/QA paths for the different OAuth patterns internal to the company. It also strengthens Aetna's cybersecurity posture. Other tasks included making REST calls to authorize endpoints, making HTTP requests, making security tests for APIs, participating in Scrum and Sprint Planning meetings, and familiarity with IBM API Connect, IBM WebSphere Liberty, SoapUI, Eclipse, and Node.js. I was nominated as one of the select top-performing interns out of approximately 330 candidates.

**Technical Contractor**  
**Several Organizations**

January 2020 – June 2020  
Remote

Developed/designed websites for different organizations using Javascript, JQuery, CSS, and HTML knowledge. For my most recent client, FNJJC, I developed and designed a Squarespace website in a 2-month timeframe with heavy CSS, HTML, and back-end development to secure transactions.

**CS Developer and Technology Advisor**  
**Emory University**

January 2019 - May 2019  
Oxford/Atlanta, GA

In charge of brainstorming and executing different ways to use technology, such as coding interactive games and making videos and comics to enhance the learning experience of computer science and math students at Emory.

**Multiple Positions**  
**Her Campus Media**

2018 – 2020  
Atlanta, GA

Her Campus is a Global online media company with 1600+ employees and 33+ million visitors.

- **Treasurer, Secretary, and Staff Writer:** Wrote articles (many in STEM), budgeted for and organized events, collected student dues, managed money for the chapter, worked closely with Student Governance Services to secure grants and reimbursements, and kept track of chapter funds.
- **Internship with Her Campus Media during Fall 2019:** Worked with the company at the international level to increase the growth of Her Campus Media.

**Member of Emory Media Council**  
**Emory University**

Sept 2019 - Present

Regulated and cultivated quality student-produced publications and other forms of media for the Council. Organization governs and represents all student media organizations at Emory.

**Donation Coordinator**  
**The Office of Annual Giving at Emory University**

January 2019 - April 2019  
Atlanta, GA

Communicated with alumni, parents, and friends to secure gifts to Emory University as part of the Emory fundraising team. Donors support academics, research, patient care, scholarship and service. I personally strived for and achieved in fundraising for the computer science department at Emory.

**VOLUNTEER EXPERIENCES**

**Researcher**  
**Emory University**

Spring 2020  
Atlanta, GA

Researcher for a COVID-19 project tasked with providing decision-making support to Emory and others by predicting the dynamics of the outbreak in the US. This comprised of making a mathematical model of the disease and validating it with a computer simulation built in R. The model included data from around the world to estimate exposure rates and to predict the effects of countermeasures. My team of 5 focused on how social distancing and gender affect the susceptible, exposed, infected, and recovered populations at each time interval during the outbreak. We also investigated whether an emergency vaccine for healthcare workers only (11% of the USA) could impact the course of the outbreak in other populations. Ultimately won a **second-place prize** in an Emory sponsored competition.

**Startup Pitcher and Javascript Developer**  
**HackGT**


October 2020  
Atlanta, GA

Pitched a startup idea for the largest hackathon in the southeast for a Javascript app using several APIs on a team of four and developed it in an intensive three-day timeframe. Our team collaborated together using GitHub and Slack.

I tutored students, up to 6 hours per week, ranging from those in elementary school to high school on a one-on-one basis. I strived to teach my students how to approach problems from a creative angle to simplify processes and to help them more easily digest information. My biggest goal as a tutor is to not only give students confidence in their STEM skills to hopefully help them enjoy what STEM has to offer and to aid them in seeing that they have the skills necessary to pursue STEM, but also to act as a mentor that is understanding of each student's story.

### EXAMPLES OF SELECTED PROJECTS

**Modern Tamagotchi-style Video Game** developed in Java using the ACM Graphics Library.

 [github.com/Laura-Neff/Modern-Tamagotchi-Game](https://github.com/Laura-Neff/Modern-Tamagotchi-Game)

**Bootstrap + jQuery Web App** for finding recipes and meals at nearby restaurants that incorporate a certain ingredient, using the Yelp, Google Maps, and Edamam APIs.

 [github.com/Laura-Neff/IN-OR-OUT](https://github.com/Laura-Neff/IN-OR-OUT)

**Express.js Financial / Investing Web App** that helps users better track, invest, and save their money, incorporating JS unit tests.

 [github.com/Laura-Neff/Project2-1](https://github.com/Laura-Neff/Project2-1)

### PATENTS AND PUBLICATIONS

- **US Patent Application 15/256,673.** Neff, Laura. "Instructional Content Generation for the Challenged." 2016.
- **US Patent Application 16/166,121.** Neff, Laura. "An Intelligent System and Method for Immersive Interactive Media Creation." 2018.
- **US Patent Application 16/172,781.** Neff, Laura. "Intelligent Model for Instructional Content Generation." 2018.

### HONORS AND AWARDS

- Member of Alpha Upsilon Epsilon Honor Society per performance at Emory
- Emory University Dean's List - 2017 to 2020
- COVID-19 Project – 2<sup>nd</sup> Prize winner
- (Gold) President's Education Awards Program
- French Honors Society
- Tri-M Music Honors Society

### LANGUAGES SPOKEN

English (native); French (fluent); Spanish (working knowledge)