

Ila Vienneau

ilavienneau.com | ivienneau3@gatech.edu | 336-549-8409

Education

Georgia Institute of Technology, Atlanta, GA

Expected May, 2020

Bachelor of Science in Computer Science with a concentration in Devices and Intelligence

Major GPA: 4.00

Work Experience

Teaching Assistant in GT course CS Data Structures and Algorithms

January 2019 – Present

- Hold weekly recitations and office hours for students to teach core concepts.
- Grade and provide feedback on exams and assignments in Java.
- Utilize J-Unit testing.

Undergraduate Research at Keilholz Lab, Emory

November 2017 – May 2018

- Worked to develop an algorithm which uses unsupervised machine learning techniques such as tSNE to detect signal patterns conserved across regions of interest of a brain, and across brains of patients from functional magnetic resonance imaging scans.

Research and Development Intern at MiMedx

June, 2017 - August 2017

- Wrote a proprietary report used by the company to guide future product direction based on my work characterizing products with respect to: growth factors and cytokines relating to healing rate, the presence of anti-microbial peptides relating to immunogenic properties, and the differences between polyhydramniotic and normal amniotic fluid.

Product Development

Febrile Seizure Detection

August, 2017 – December 2017

- Gained leadership skills working collaboratively in a small team to design, model, and build a novel device for the detection of febrile seizures and protection from associated head injuries in infants 6 months to 3 years of age.

Selective Noise Cancellation

October 19 – 21, 2018

- Gained hardware skills working in a team at Hack GT to design an individualized device to selectively noise cancel sounds that trigger panic responses in patients suffering from Misophonia.

Campus Involvement

Girls Who Code Finance Team

January, 2019 – Present

- Working in a team to increase the impact of GWC by reaching out to different schools in the Atlanta area to set up mentoring workshops.
- Reaching out to sponsors to increase the programs the club can provide.

Skills and Interests

Programming and Software: C, Java, Python, LC3 Assembly, MATLAB, JavaScript, HTML, CSS, git, Unix and Linux command line, Linux VM environments.

Technical: Unsupervised Machine Learning, Digital Signal Processing, technical writing.