

Adam Cooper Hayward

Undergraduate Researcher, Software Engineer, and Designer

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EDUCATION

Georgia Institute of Technology | Atlanta, GA

Aug. 2016 – Present

- Bachelor of Science Candidate in Computer Science
- Concentrations: People and Information Internetworks
- GPA: 4.0

Graduating in: May 2020

WORK EXPERIENCE

DILAC Lab at Georgia Institute of Technology

Software Development Intern

Data by Design: <https://dxd.lmc.gatech.edu>

May 2018 – Present

- Engineering an online interactive book with rich notebook and visualization features
- Configuring Webpack to allow easy testing, development, and deployment of Vue.js code
- Documenting codebase in the “Data by Design Handbook” to save hours of onboarding time for new hires

TOME: <http://tome.lmc.gatech.edu>

Jan. 2017 – May 2018

- Developed website for exploring topic model data from over 300k 19th Century Abolitionist articles
- Modeled data across several custom visualizations using D3.js
- Cut initial website load time from 5s to milliseconds by optimizing Django database transactions

Shape of History: <http://shapeofhistory.net>

Aug. 2016 – Jan. 2017

- Adapted limited codebase of data vis. research project into website
- Presented research paper during 2017 Digital Humanities Conference at McGill University
- Created custom grid-based navigation system with jQuery and CSS3 Transitions

PROJECTS

Rush Voting Web Application

- Building Vue.js web app to efficiently collect and analyze rush votes for potential new members
- Implementing RESTful API to support future iOS and Android development
- Drafted wireframes to test designs and layouts before coding them

Fourier Art Music Visualizer

- Collaborated with non-programmer to turn mathematical analysis into art during 36-hour hackathon
- Combined p5.js music analysis algorithms with Paper.js HTML5 graphics to create a front-end music visualizer
- Extended p5.js audio library to allow for song uploading, queuing, and scrubbing by the listener

LEADERSHIP

Recruitment Director at Delta Sigma Phi

Jan. 2018 – Present

- Developed plan for continuous recruitment which led to a 75% increase in recruitment during Spring Rush
- Leading development of fraternity voting app to boost productivity rush recruitment period

Computational Media Ambassador

Aug. 2016 – Jan. 2018

- Petitioned to increase CM student access to database, security, and networking courses
- Organized and presented an introduction to web development tutorial

SKILLS

Front End: Component-Based Frameworks | HTML5 | CSS3 | ES6 JavaScript | Data Vis with D3.js

Back End: Django | RESTful APIs with Node.js | Continuous Integration | MySQL | Apache2 | Linux

General: Java, C, Test Driven Development, UML Diagramming, Photoshop, Illustrator, InDesign