

# Sarah Hasyim Miller

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## EDUCATION

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**B.S. Computational Media** • Georgia Institute of Technology AUG 2020 - MAY 2024  
Joint Major in **Computer Science** and **Media Communications** • 3.66 GPA  
Concentration in Front-End Development and Interaction Design

## SKILLS

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<b>Programming Languages</b>	JavaScript, TypeScript, HTML & CSS, Python, Java
<b>Software, Libraries, &amp; Frameworks</b>	React, D3, Node, Flask, MongoDB, DynamoDB, Git, Material-UI
<b>Management &amp; Design Tools</b>	Drupal, WordPress, Jira, Agile, UML, Figma, Photoshop, Illustrator

## RESEARCH & EXPERIENCE

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**Software Engineer Co-op** • Georgia Tech Research Institute AUG 2021 - PRESENT  
CIPHER IT • Application Support Team

- Architect and maintain portfolio of full-stack web applications used by 350+ CIPHER Lab employees
- Utilize **React, Node, Express** JavaScript libraries for application framework and manage **MongoDB** database
- Troubleshoot bug fixes and perform feature upgrades in **TypeScript**, specializing in client side logic and UI:
  - Migrate data visualization for Jira tickets in **chart.js** to interactive **D3** graphs to improve UX
  - Modernize CIPHER IT login page and implement redesign across all AST applications with **MUI, CSS**

**Web Developer & UX Designer** • Georgia Tech Office of IT MAY 2021 - AUG 2021

- Perform **Drupal / WordPress** redesigns and migrations for six public-facing websites (30,000+ users)
- Integrate user-optimized redesigns into structured web pages using **HTML, CSS, JavaScript**
- As interim **UX Design Lead**, chair weekly showcase meetings to provide UX recommendations to design teams
- Conduct **user research** (personas, journey maps, usability testing) to inform **prototyping** in **Figma**

**Student Researcher** • VoterTech, Vertically Integrated Project JAN 2021 - MAY 2021

- Collaborate in research team to identify uses for web technology to increase student voter registration
- Manage Georgia Tech's voting site by designing UI of webpages in **Figma** and creating site content in **Drupal**
- Complete 3 project cycles • Develop interactive map for voting out-of-state using **HTML, CSS, JavaScript**

## LEADERSHIP

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**Nonprofit Partnership Coordinator** • Bits of Good AUG 2021 - AUG 2022

- Connect local nonprofits in need of technical solutions with Georgia Tech student development teams
- Identify and establish relationships with 20+ local nonprofits to pinpoint areas of technological need
- Author product proposals and pitch nonprofit business cases to internal Bits of Good leadership

**Online Editor** • Technique Newspaper JAN 2021 - DEC 2021

- Responsible for social media channels and **WordPress** site, reaching 9,000+ students and alumni
- Identify best practices for optimizing content distribution to increase online engagement by 50%
- Write **AP-style** editorial pieces on a quarterly schedule • Develop custom graphics in **Photoshop, Illustrator**
- Won Georgia College Press Association Third Place Best Review (2021), First Place Best Website (2021)

## PROJECTS

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**No Stocks Left Behind** • HackGT 9 Hackathon OCT 2022

- Develop wearable device and linked web application to monitor real-time stock portfolio performance
- Architect web interface for portfolio and alert threshold configuration in **React, MUI** with **Axios** HTTP client
- Build **Flask** backend in **Python** to monitor stocks using **yfinance** library and store user data in **AWS DynamoDB**