

**Bryce M. Plunkett**  
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**Education:**

- Candidate for Bachelor of Science in Computer Science at Georgia Institute of Technology *2018-Present*
  - Expected to graduate in May 2022
- Centennial High School, Ellicott City, Maryland (GPA 4.0/ W 4.81) *2014-2018*
  - Data Structures Class, Object-Oriented Design Class

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**Honors:**

- AP National Scholar
- 800 on Physics SAT Subject Test; 800 on Math II SAT Subject Test; 800 on Math Section of SAT

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**Experience:**

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- Software Engineering Intern at the Johns Hopkins Applied Physics Laboratory** *2018*
    - Built interactive data visualization widgets for large data sources using Angular, ES6, and python
    - Developed a desktop application using Electron, Express (and other node modules), and Angular 6
    - Assisted in coding Java 8 analytics algorithms for the group's proprietary data analytics library
    - Used git as a VCS for all projects, which had development teams of varying sizes
  - Highschool Intern at the Johns Hopkins Applied Physics Laboratory** *2016-2018*
    - Leverage Apache Storm, Hadoop, Apache Kafka, and VivaGraph to build real-time data ingestion, analytics, and visualization engines that uses distributed computing and WebGL

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**Projects:**

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- Lantern (Angular App – Typescript)**
    - Angular app similar with similarities to the basic functionality of Reddit
  - Ship Analytics Website MEAN App (with analytics in Python)**
    - Scrapes information off dynamic and variable Wikipedia pages about Naval ships and places them into a standard format along with standard units
    - Calculated a similarity value and ranked how similar one ship was to all others
  - Image Steganography Tool (Python and C#)**
    - Encodes and decodes messages into and from images by modifying the LSB
    - Encrypted messages bits are diffused throughout the image rather than placed linearly
  - Notable School Projects (all Java; not a comprehensive list)**
    - Monoalphabetic substitution cipher sentence “decoder”
    - Probability-based Yahtzee strategy, probability-based Battleship strategy
    - Efficient prime counter using segmented sieve of Eratosthenes

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**Activities:**

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- Centennial Model United Nations Website Developer** *2016-2017*
    - Created, designed, and maintained website used by the club
    - Created a digital attendance system using MySQL and PHP to reduce fraudulent attendance reporting
  - Centennial Model Congress President** *2017-2018*
    - Led initiative to pivot the club from expensive conferences to more affordable ones
    - Develop a reusable series of lectures and supplemental materials to teach parliamentary procedure
    - Engage highest number of active members since the group's inception
  - National Honor Society Webmaster** *2017-2018*
    - Added significant functionality to the dynamic volunteer portal system using PHP, JavaScript, and MySQL
    - Redesigned the website using principles from Material Design, adding a sense of depth and unity
    - Maintained databases

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**Skills:**

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- **Advanced:** Angular >=2, Bash Terminals, CSS (and SASS), HTML, Java 10, JavaScript (ES6), NodeJS, NPM, Python
  - **Intermediate:** Apache Kafka, Apache Storm, C#, Electron, Emacs, Express, git, Hadoop DFS, LaTeX , Maven, MongoDB, MySQL, PHP
  - **Portfolio:** <https://github.com/Navbryce> | <https://gitlab.com/navbryce>