

Bryce M. Plunkett
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Education:

- Candidate for Bachelor of Science in Computer Science at Georgia Tech (GPA 4.0) *2018-Present*
 - Expected to graduate in May 2022
 - Notable classes: Data structures, discrete math, linear algebra, objects and design
- Centennial High School, Ellicott City, Maryland (GPA 4.0/ W 4.81) *2014-2018*
 - Data Structures Class, Object-Oriented Design Class

Honors:

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

Experience:

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- Software Engineering Intern at the Johns Hopkins Applied Physics Laboratory** *2018, 2019*
- Built interactive data visualization widgets for large data sources using Angular, D3, 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 and JIRA for all projects, which had development teams of varying sizes
 - Wrote VBA scripts to analyze and correct discrepancies between large data sets in Excel

- 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 and visualization engines that uses distributed computing and WebGL

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
 - Calculates 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 (not a comprehensive list)**
- Monoalphabetic substitution cipher sentence “decoder” (Java)
 - Android game--“Interstellar Merchant” (Java, Kotlin, and some MongoDB)

Activities:

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- Bits of Good Member – International Refugee Committee App (Backend Developer)** *2019*
- Assisted development of Express backend for MERN (client authentication, database queries)
 - Created documentation using Swagger Docs
- Member of Data Science Club Project Team** *2019*
- Used R to analyze, augment, and visualize datasets related to predicting the performance of non-English speakers in games related to learning English (Distance Teaching and Mobile Learning)
- 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

Skills:

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- **Advanced:** Angular >=2, Bash Terminals, CSS (and SASS), HTML, Kotlin, Java 10, JavaScript (ES6), NodeJS, Python, TypeScript
 - **Beginner/Intermediate:** Express, git, Gradle, LaTeX, Maven, MongoDB, MySQL, PHP, R, VBA
 - **Portfolio:** <https://github.com/Navbryce> | <https://gitlab.com/navbryce>