**Bryce M. Plunkett**
Ellicott City, MD 21042
(410) 215-9173 ◊ plunkett.bryce.m@gatech.edu

## 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:

**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 and visualization engines that uses distributed computing and WebGL

## Projects:

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

## Activities:

**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:

- **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
- **Portfolio**: https://github.com/Navbryce | https://gitlab.com/navbryce