# Jonathan Bryan

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Portfolio: https://jtbryan.github.io | GitHub: https://github.com/jtbryan | LinkedIn: https://www.linkedin.com/in/jonathan-bryan-004953109/

## EDUCATION

**University of Tennessee, Knoxville** — **Expected Graduation: May 2021**
*BS, Major: Computer Science, Minor: Cybersecurity* — *Knoxville, TN*
**GPA: 3.92/4.0**

## EXPERIENCE

**University of Tennessee, Knoxville** — **December 2019 – Present**
*Undergraduate Research Assistant at **Usable Security and Engineering Research Laboratory*** — *Knoxville, TN*
Professor: **Dr. Austin Henley**

- Developed a package for Python used to analyze the shape of code by mining GitHub repositories
- Applied data analysis techniques with Python to visualize data stored in MongoDB

**University of Tennessee, Knoxville** — **August 2019 – May 2020**
*Undergraduate Research Assistant at **Nonlinear Bio-Dynamics laboratory*** — *Knoxville, TN*
Professor: **Dr. Xiaopeng Zhao**

- Created a gamified platform for users to interact with a drone using an EEG headset
- Developed the user interface for the platform using Node-RED and Python

## PROJECTS

**File Locker** — **Fall 2019**
*COSC 483 – Introduction to Applied Cryptography*
Tools and Languages: **Python**

- Developed a script used for simulating a simplified encrypted file system
- Implemented cryptographic algorithms (RSA/ECC) for encrypting and digitally signing files using Python

**CourseCal** — **Fall 2019**
*COSC 340 – Software Engineering*
Tools and Languages: **HTML • CSS • JavaScript • Electron.js • git**

- Created an Electron application used to allow students to effectively manage events in their life
- Established a collaborative environment with teammates by encouraging the use of version control based development

**VocaCoord** — **Summer 2019**
*COSC 493 – Independent Study*
Tools and Languages: **HTML • CSS • JavaScript • Node.js • React.js • Firebase • git**

- Contributed to the design of VocaCoord with the goal of improving the learning experience of students who are hearing impaired
- Enhanced the design of the application using React, allowing teachers to gain further insight into student participation

## SKILLS

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|---|---|
| Programming Languages: | C++ • C • Python • Java • Ruby • PHP • JavaScript • CSS • HTML |
| Databases: | SQLite3 • MySQL • MongoDB • Relational Database Design |
| Frameworks & Libraries: | Ruby on Rails • Node.js • React.js • Electron.js |
| Tools: | Git • SVN • GitFlow • Docker |
| Operating Systems: | Linux (Ubuntu 16 & 18, Kali, Arch) • Windows 7/10 • Mac OS |
| Cloud Services: | Google Cloud Platform (GCP) |

## CLUBS & HONORS

- Co-captain & Programmer for Pellissippi IEEE Robotics club (2017-2018)
- Member of HackUTK club
- Presented Undergraduate Research at both ***UT Day on the Hill*** as well as ***EURēCA***