Jonathan Bryan

Jbryan74@vols.utk.edu | (865) 705-9847 | 4714 Clairson Dr., Knoxville, TN, 37931
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

Oak Ridge National Laboratory   **January 2021 – Present**
SULI Intern   *Oak Ridge, TN*
- Worked collaboratively with Dr. Mariano Pablo in the Computer Science and Mathematics division to develop graph-based learning algorithms.
- Applied machine learning algorithms to predict vulnerabilities in open-source GitHub repositories.

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

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

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*