Nicholas Baillon

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Website & Projects: https://nickwashere.github.io/

Education

Bridgewater State University, Bridgewater, MA May 2020

Bachelor of Science, graduated *summa cum laude*. GPA: 3.9

- Primary Major: **Computer Science**
- Secondary Major: **Mathematics**
- Minor: **Statistics**

Honors and Awards

Pi Mu Epsilon. National mathematics honor society. April 2019
ROSE Scholarship. Specific to BSU, full tuition and fees paid. 2016-2020

Computer Skills

Operating Systems: Windows (95, 98, XP, Vista, 7, 8, 8.1, 10), Linux (Ubuntu), Mac (OSX)
Languages: C, C++, F#, Java (Swing, Android), Prolog, Python, R, Swift, x86 Assembly
Web Development: HTML, CSS, JavaScript, JQuery, AJAX
Databases: PostgreSQL, SQLite, MongoDB
IDEs: Eclipse, JetBrains (PyCharm), R Studio, SAS, Visual Studio
Text Editors: Notepad, Notepad++, Visual Studio Code
Version Control: Heroku, GitHub, GitKraken, Sourcetree
Other Software: MS Office (Excel, Word, etc.), OpenOffice, GIMP, Audacity, VirtualBox, WireShark

Programming Knowledge

- Familiar with the Functional, Logical, Object-Oriented, and Procedural paradigms and their applications.
- Experience using statistical software, including R, R Studio, and SAS.
- Capable of using Git software to coordinate version control.
- Proficient in multiple programming languages with varying syntax.
- Able to work and communicate effectively in team environment on projects with deadline.

Computer Science and Related Course Work

- Cybersecurity & Computer Networks
- Cryptology
- Web Application Development
- Discrete Mathematics
- Data Structures and Algorithms
- Analysis of Algorithms
- Mobile App Development
- Object-Oriented Software Engineering
- Operating Systems
- Organization of Programming Languages
- Senior Design and Development
- Computer Organization

Statistical Course Work

- Probability Theory
- Regression Analysis
- Statistical Methods I and II

Other Mathematical Course Work

- Linear Algebra, Abstract Algebra
- Multivariable Calculus
- Real Analysis

Projects

- **C++ Text Adventure**. Created Zork-like game. Text parsing achieved with verb+noun system, with multiple menu layers. Implemented abstract classes, inheritance and other OOP principles.
- **Chatroom Website**. Allows users to register and send text messages in chat to all users or a single specified user. User information and settings stored in PSQL database. Uploaded to Heroku.
- **x86 Assembly Breakout**. Designed graphical, real-time game. Defined location of blocks, speed of ball and keyboard inputs for movement of paddle.
- **RSA Encryption Scheme**. Used the extended Euclidean algorithm and relatively prime numbers in modulus to encrypt and decrypt messages by hand.