

Nicholas Baillon

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

Work Experience

Vision Government Solutions, Inc. Hudson, MA (remotely) June 2021 - Oct. 2024

Title: Software Engineer. Description: Worked in solo and team environments to create software used in the mass appraisal industry for evaluating real property in a fair and equitable manner according to IAAO standards. AGILE / SCRUM workflow using Jira and daily status meetings.

Projects

- Desktop Application. CAMA software written in C# with API calls to execute T-SQL commands and stored procedures. Saves to database done via API using JSON serialization. Success of the software depends on its calculator logic producing consistent values along with new feature development.
 - Worked on a regression analysis feature which allowed export and import of files for use in mainline statistical software packages, such as SAS.
- Admin Web App. JavaScript node.js app developed for a high-profile customer, using an API to pass JSON objects to a Windows service which will execute tasks at specified times.
 - Worked on app over two year period as one of two devs in the beginning, was responsible for doing research on which tech stack to use, and was heavily involved in the schema and UI design process.
- Data Entry Web App. Blazor tool developed to allow users to quickly add data for common database fields. Linked to cloud-hosted service for saving associated photos.
 - Created UI layout over an extended weekend hackathon, to match customer's existing paper forms.

Education

Bridgewater State University Bridgewater, MA Sep. 2016 - May 2020

Bachelor of Science. Primary Major: Computer Science, Secondary Major: Mathematics, Minor: Statistics.

Honors and Awards

- Graduated *summa cum laude*. 3.9 GPA. May 2020
- Pi Mu Epsilon. National mathematics honor society. April 2019
- Presidential ROSE Scholarship. Specific to BSU, full tuition and fees paid. 2016-2020

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.

Other Skills

Operating Systems:	Windows (10, 11), Linux (Ubuntu), Mac (OSX).
Languages:	C, C++, C#, F#, Java (Swing, Android), Prolog, Python, R, Swift, x86 Assembly.
Web Development:	HTML, CSS, JavaScript, JQuery, AJAX.
Databases:	Microsoft SQL Server (T-SQL), MongoDB, PostgreSQL, SQLite.
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.), LibreOffice, GIMP, Audacity, VirtualBox, WireShark.