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South Huntington, New York (open to relocation)  
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## **Education**

**New York University** | New York City, New York

**Completed:** May 2021

*Studied for Bachelor's of Science in Computer Science and Engineering*

## **Skills & Expertise**

### **Programming Languages**

C#, Python, TypeScript, JavaScript, MySQL, SQL, C/C++, Java, HTML, CSS

### **Frameworks**

Angular, .NET, React, React Native, Bootstrap, Flask

### **Software & Tools**

Git, Visual Studio, Visual Studio Code, SQL Server Management Studio, Postman API Platform, Microsoft Azure, Google Cloud Platform, Windows, macOS, Linux

## **Experience**

**biBERK Business Insurance** | Wilkes-Barre, Pennsylvania

**Software Engineer (Remote)** | August 2022 - Present

- Implemented a data-driven solution for the validation of Worker Compensation policies utilizing Angular, C# .NET, and Entity Framework, ensuring seamless compliance with a diverse set of State laws.
- Engineered a data-driven validation framework for producer account configurations using C# .NET, Entity Framework, and MySQL, resulting in a noticeable 99% decrease in production issues involving producer accounts and policy creation.
- Pioneered the development of an intuitive, in-house web-based configuration tool leveraging Azure Cosmos DB, C# .NET, Azure Functions, and Angular - empowering product owners, business analysts, and developers to efficiently manage underwriting questions with integrated validation for embedded logical expressions and conditionals.
- Revitalized and optimized critical SQL stored procedures, slashing execution times from multiple minutes to mere seconds, which resulted in significantly elevated producer and customer satisfaction during the policy purchasing process.
- Oversaw daily standups, sprint plannings, and collaborated with cross-functional teams to ensure tasks were completed promptly and deadlines were consistently met in a dynamic Agile setting.
- Delivered proactive support and triage for production environment issues, extending assistance to both internal biBERK teams, as well as business partners leveraging biBERK's "Partner API", ensuring seamless operations and fostering strong collaborative relationships.

**Dice Habit** | Los Angeles, California

**Full Stack Developer (Remote, Part-time)** | May 2022 - November 2022

- Orchestrated the development of a tailored website allowing retailers to effortlessly access and customize specialty dice orders.
- Leveraged React's component-based architecture to create a modular and scalable solution tailored to client specifications.
- Oversaw the deployment of both the website and MySQL database on the Google App Engine via the Google Cloud Platform.

## **Personal Projects**

<https://github.com/dbentler>

### **Personal Portfolio Website**

*Languages and Tools: React, TypeScript, HTML, CSS*

*Deployed on the Google App Engine*

- Designed and built a website from scratch using the aforementioned technologies to act as an online résumé/portfolio hub.
- Custom built a CI/CD pipeline to deploy updates for the website from the completion of a pull request on Github.
- <https://www.darrenbentler.com/>

### **Blamo - A Wolfenstein-style 3D Raycast Renderer**

*Languages and Tools: C, SDL2, CMake*

- A software renderer written in C that morphs a simple 2D array into a dynamic 3D world.
  - Supports variations in wall color depending on the index value in the 2D array (ie: 1 for Red, 4 for Green).
  - Other features include: camera collision, camera rotation on the X and Y planes, and strafing.

### **LW-Network | LW-Core, LW-Hub, PunishGUI**

*Languages and tools: Java | Spigot API | Linux | Tebex API | Bungeecord*

- Collaborated with team members to create a network of game servers and to later develop software to enhance the overall user experience.
- Solved numerous problems such as:
  - Figuring out a point's position within 3D space and its distance from the origin.
  - Resetting a player's gamestate with the execution of a command.
  - Developed and deployed a *monetization scheme (store)* via Tebex's API.
  - Interfacing with the gamestate itself via Spigot API to pull data such as weather, heat zones, and player points of interests for later review.
  - An easy to use GUI system to deal out the appropriate punishment for rulebreakers, instead of relying on memorization and procedure.
  - Ensuring that punished players could not connect to the network on an alternative account, or if they were bypassing an IP ban via a VPN.

### **Silicoins - A C++ Blockchain Implementation**

*Using C++*

- Set out to better understand Blockchain technology by writing my own "coin".
  - Set down the building blocks by creating a data structure - "Block" - which stored an index number, a proof number, previous hash, transaction data, and timestamp.
  - Utilized a C++ implementation of the SHA256 algorithm in order to hash the block data and implement a "proof of work" CPU algorithm for creating more blocks.
  - Chained these implementations together in order to create the "blockchain".