

# Brian St-Juste

Garnerville, NY | [brianstjuste2021@gmail.com](mailto:brianstjuste2021@gmail.com) | P: +1-845-287-5612

[Linkedin](#) | [Github](#) | [Portfolio](#)

## EDUCATION

### UNIVERSITY AT ALBANY

Albany, NY

Bachelor in Computer Science, Minor in Mathematics & Informatics

January 2023 - December 2025

Relevant Coursework: Data Structures and Algorithms, Introduction to Data & Databases, Operating Systems, Computer Architecture and Organization, System Fundamentals, Software Engineering.

### MONROE COLLEGE

New Rochelle, NY

Associates In Computer Information Systems

August 2021 - December 2022

## WORK EXPERIENCE

### HEALTHFIRST | Software Engineer Intern

New York City | June - August 2024

- Created **Helpfirst**, a Chrome extension AI chatbot for over **100 internal developers**, enhancing work efficiency and productivity by **8%**, improving delivery speed, and streamlining workflows. Trained the **Large Language Model (LLM)** with datasets tailored to web development needs and developed the frontend to handle user inputs and adjustable chatbot settings, ensuring a customizable and effective user experience.
- Implemented **Care Connect**, a feature on a consumer-facing website that guides prospective members to a form after selecting their primary care physician (PCP). Created the form page for prospect member information and developed a **POST API** to send data to **AWS Lambda**, which then processed and stored the data in **DynamoDB**. This enhancement benefited an estimated **500,000** users during open enrollment, boosted new member enrollment by **8%**, and helped Healthfirst reach the **2 million** member milestone.
- Collaborated with UI/UX designers using design thinking to enhance user accessibility and system efficiency. Built and improved the web application's frontend with **React.js** and backend with **Python**, **AWS**, and **AWS Lambda**. Utilized **AWS DynamoDB** for database management and **Amazon S3** for storage. Created and optimized robust **REST APIs**, reducing backend response times by **10%** and significantly improving application performance.

## PROJECTS

### ADVANCED JOB BOARD WEBSITE | Product Manager/ Developer Role

- Engineered a **high-performance** job board platform inspired by **LinkedIn** and **Glassdoor**, focusing on **superior efficiency** and feature set. Handled project planning, design, and development independently.
- Implemented **AI-driven** job matching, real-time notifications, and interactive company profiles using **React.js** for the frontend, resulting in an **11%** increase in job postings and a **13%** rise in revenue. Architected the backend using **Node.js**, **AWS Lambda**, **Amazon API Gateway**, and **DynamoDB**, ensuring scalable infrastructure, efficient data management, and seamless **API** interactions.
- Decreased application errors by **10%** and reduced system downtime by **13%** through optimization and comprehensive testing.

### PROGRAMMING LANGUAGE COMPILER | Developer

- Engineered an interpreter for **Python** using **Java**, including comprehensive stages of **lexical analysis**, **parsing**, and **semantic analysis**. This interpreter verifies code syntax based on the source language's rules, creating abstract syntax trees to represent logical structures of code elements. The design allows for easy modification to accommodate different programming languages.
- Formulated and integrated advanced **error handling mechanisms**, boosting the interpreter's reliability and fault tolerance by over **10%**, ensuring smooth execution even under edge-case scenarios.
- Optimized the development and testing pipeline for **JavaScript**, **Python**, and **Kotlin** code, promoting a culture of experimentation and improving developer productivity by approximately **15%**, thereby accelerating project timelines and innovation.

### WEATHER DASHBOARD APPLICATION | Developer

- Implements a **Python** application using **APIs** like **OpenWeatherMap** to fetch and display precise real-time, forecasted, and historical weather data. Ensures high data **accuracy** by updating the information every time the user interacts with the application, providing up-to-date weather details for various geographic locations.
- Integrated sophisticated **error handling** and **data caching mechanisms**, including retry logic for **API** requests and local caching of frequently accessed data. This increased application resilience and performance by over **10%**, ensuring consistent functionality under diverse conditions and reducing downtime or delays.
- Streamlined backend processes to boost system responsiveness, leading to improved user engagement and more efficient project iterations.

## LEADERSHIP EXPERIENCE

### NATIONAL SOCIETY OF BLACK ENGINEERS | Member

New Rochelle, NY/Albany, NY | August 2021 – Present

- Contributed to coding workshops, enhancing programming skills among members, playing a supportive role in the community's development.

### COLORSTACK | Member

Remote | August 2021 – Present

- Participated in coding workshops and mentorship programs, supporting underrepresented students in tech through skill-building and networking.

## SKILLS

- Programming Languages: **Java**, **Python**, **Kotlin**, **Objective-C**, **Swift**, **PHP**, **Ruby**, **C**, **C#**, **C++**, **JavaScript**, **HTML**, **CSS**, **SQL**
- Web Development: Skilled in web technologies such as **React**, **Django**, **Azure**, **AWS**, and **VMware**