

# Jamyang Ponsar

## Software Engineer

### EDUCATION

#### Bachelors of Science in Computer Science

Stony Brook University - Stony Brook, NY

December 2024

### PROJECTS

#### Dolphin Data Sharing

September 2024 - December 2024

- Developed a **decentralized file-sharing application** featuring **cryptographic hash-based file** uploads, downloads, and searches, **peer-to-peer proxy functionality using P2P**, and **file metadata storage with MongoDB**, along with an **HTTP Proxy** for managing proxies and facilitating secure file access.
- Designed an **interactive interface using Material UI and ReactJS** with features like account settings and dark UI mode.
- Configured **blockchain** tools such as **btcd and btcwallet** through **Go libraries** to facilitate **secure transaction handling** and **coin mining**. Implemented a **login system** with wallet creation and **hashed password authentication for user security**.

#### Fake Stack Overflow

March 2024 - May 2024

- Developed a **full-stack web application** replicating core Stack Overflow features, including question and answer posting, tag-based filtering, upvoting, and pagination, using **React, JavaScript, Node.js, and MongoDB**.
- Designed a **responsive user interface** with **CSS** and **JSX**, incorporating **advanced filtering logic for text and tag-based search** and **dynamic state updates** to enhance usability and interactivity.
- Implemented **server-side functionality** with **Express.js** and **MongoDB**, creating schemas for questions, answers, and tags to ensure **efficient data management** and seamless integration with the front end.

### WORK EXPERIENCE

#### Controls NYC

June 2024 - August 2024

BMS Programmer and QA Developer - New York, NY

- Engineered **advanced software solutions** for Building Management Systems (BMS), utilizing **data retrieval algorithms** and **virtual machine architectures** to **enhance alarm monitoring** and **ensure legacy system compatibility**.
- Automated data acquisition** and processing workflows by integrating **external APIs** and scripting in **Python**, improving operational efficiency within **Niagara 4-based platforms**.
- Modernized **user interfaces** for FIT's BMS using **reactive JavaScript components**, improving user interaction and system responsiveness.

### LEADERSHIP EXPERIENCE

#### Stony Brook Volleyball Club

May 2023 - May 2024

President

- Lead a team to supervise practices and events for **over 50 active members**
- Increased annual budget by 30%** through strategic fundraising

### CONTACT

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### SKILLS

#### Technical Skills:

- Python
- Java
- HTML
- CSS
- JavaScript
- C
- TypeScript

#### Tools/Software

- Git/Github
- Microsoft Visual Studios
- Google Suite
- Office 365
- MongoDB
- ReactJS
- NextJS
- NodeJS
- ExpressJS
- Niagara4

#### Personal Skills:

- Leadership
- Teamwork
- Communication
- Critical Thinking
- Problem Solving

### Relevant Coursework

- Data Structures
- System Fundamentals
- Natural Language Processing
- Cloud Computing
- Analysis of Algorithms
- Programming Abstraction
- Scripting Languages
- Object Oriented Programming

### OTHER

- U.S. Citizen
- github.com/JamPonsar
- jamyangponsar.vercel.app