

# JAMYANG PONSAR

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## Education

### Stony Brook University

*Bachelor of Computer Science*

**Completed: Dec 2024**

*Stony Brook, NY*

**Relevant Coursework:** Data Structures, Object-Oriented Programming, Analysis of Algorithms, Programming Abstraction, System Fundamentals, Natural Language Processing, Software Development, Cloud Computing, Scripting Languages, Software Engineering

## Work Experience

### Controls NYC

*BMS Programmer and QA Developer*

**Jun 2024 – Aug 2024**

*New York, NY*

- Developed **advanced services** for the BMS industry, leveraging data retrieval algorithms and virtual machine setups to enhance alarm tracking capabilities and ensure seamless access to legacy systems for **improved client support**.
- Integrated external **APIs** and **Python** scripting to gather data from **Niagara 4 software**, enhancing automation and data processing capabilities for efficient system management and monitoring.
- Assisted in modernizing FIT's building management system interface with reactive elements in **JavaScript**.

### Stony Brook University

*Intramural Official*

**Jan 2023 – May 2024**

*Stony Brook, NY*

- Managed game scheduling and logistical coordination with officials and event organizers, ensuring seamless.
- Administered intramural sports games with precision, ensuring adherence to rules and high standards of sportsmanship.

## Projects

### Dolphin Data Sharing

**Material UI | ReactJS | MongoDB | Go | P2P | HTTP Proxy**

- 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 **btwallet** 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

**ReactJS | MongoDB | NodeJS**

- 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.

### Robo-Rush | <https://robo-rush.firebaseio.com>

**TypeScript | Firebase**

- Built a **2D side scroller running game** from scratch using **TypeScript**, **Firebase**, and the **Wolfie2D Game Engine** by collaborating with two partners, resulting in a fully functional and engaging gameplay experience with unique levels.
- Instrumental in developing the game concept, artwork, and **advanced gameplay mechanics**, including double jumping, unique obstacles, and dynamic player animations.

## Leadership Experience

### Stony Brook Volleyball Club | *President*

**May 2023 – May 2024**

- Demonstrated **strong leadership** by overseeing and conducting intensive practice sessions totaling more than **8 hours weekly**, fostering skill development and team cohesion among a dynamic and engaged group of **over 50 active members**.
- Established effective and transparent **communication**, engaging all club members to ensure smooth coordination of activities, aligning with the vision and goals of the organization.
- Successfully **increased annual budget by 30%** through strategic fundraising initiatives and effective event planning.

## Technical Skills

**Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML5, CSS, C, OCaml

**Developer Tools:** VSCode, Git, MongoDB, Google Suite, Canva, Office 365, Zoom, Figma, Niagara 4

**Libraries/Frameworks:** ReactJS, NextJS, NodeJS, PyTorch