

NATNAEL BEREDA

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EDUCATION

Stony Brook University

Stony Brook, NY

Bachelor of Science in Computer Science, Cumulative GPA: 3.43/4.00

May 2023

- **Awards:** 2 Scholarships (Shared Prosperity & Academic Achievement), Dean's List (Term GPA of 3.5 & above)
- **Career Interests:** Software Engineering, Front-End / Back-End Developer, UI/UX Designer
- **Relevant Coursework:** Introduction to Data Science, Human-Computer Interaction, Analysis of Algorithms, Computer Security Fundamentals, Computer Networks, Data Structures, Programming Abstractions

SKILLS

Hard Skills: MERN stack(MongoDB, ExpressJS, ReactJS, NodeJS), Java, Python, JavaScript, C, HTML, CSS, Git, Figma.

PROJECTS

Hand Gesture Controls for YouTube Media Player

New York, USA

Researcher and Developer

April 2023 - May 2023

- Researched and Leveraged Python programming language libraries (OpenCV, Mediapipe, PyAutoGUI, Numpy) for precise gesture recognition and control of YouTube media player using image processing and deep learning models.
- Designed and implemented a user-friendly system for hand shape recognition and intuitive media control mapping.

TileSlate

New York, USA

Developer

September 2022 - December 2022

- Designed, Developed and Tested a collaborative full-stack Web community for 2D game map creators, featuring tileset tools, map editing capabilities, and intuitive mechanisms for finding, sharing, and rating maps.
- Implemented efficient image-saving and loading functionalities, leveraging ToastUI's powerful Image editing and creation tools, resulting in an enhanced user experience with reduced editing time.
- Implemented comprehensive testing using Postman and Jest to ensure the robustness and reliability of the backend system.
- Designed and developed the backend system architecture and data models for efficient and scalable performance.
- Successfully migrated created projects to a MongoDB database, ensuring seamless data storage and retrieval.

Day Logger

Incheon, Korea

Developer

May 2022 - June 2022

- Developed and deployed a full-stack web application that allows users to set up a series of questions (similar to Google Forms) and log data for those questions over multiple days.
- Implemented a view data page to track progress of answers to questions graphically using Recharts library.
- Enabled automated unit testing using JEST and hosted the project using MongoDB Atlas, Heroku and Netlify.

NotesApp

Incheon, Korea

Developer

February 2022 - May 2022

- Developed a full-stack web application based on the Notes app found in Apple products, with multiple user support.
- Implemented additional functionalities, such as grouping similar notes and adding tags to each note.

EXPERIENCES

SUNY Korea - IT Office

Incheon, Korea

Tech Assistant (Work Study Program)

September 2019 - July 2022

- Conducted tests of functionality and security on different workstations and devices to ensure optimal performance.
- Installed, modified and repaired software and hardware to resolve technical issues and improve performance.

SUNY Korea

Incheon, Korea

Teaching Assistant

February 2022 - June 2022

- Assisted in the Introduction to Object-Oriented Programming course, providing guidance to a class of 57 students.
- Held office hours 8.5 hours/week to help students with one-on-one support and answer questions about the subject.