Michael Carpenzano

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EDUCATION

***STONY BROOK UNIVERSITY*,** Stony Brook, NY May 2022
Bachelor of Science in Computer Science **GPA: 3.2**
Relevant Coursework: Analysis of Algorithms, Data Structures and Algorithms, Programming Abstractions, System Fundamentals, Discrete Mathematics, Object-Oriented Programming, Applied Finite Mathematical Structures, Computer Networks, Software Engineering, Probability and Statistics
Awards: Dean's List Fall 2020 and Spring 2021, SBU Game Programming Competition Finalist 2021 and 2022

SKILLS

Technical Skills: Python (2 years), Java (3 years), JavaScript (1 year), HTML (1 year), CSS (1 year)
Version Control: Git
Databases: Competent with MongoDB (1 year), Some experience with SQL (<1 year).
Soft Skills: Flexible, Creative, Excellent Verbal and Written Communication, Empathetic, Detail-Oriented, and Organized.
Languages: Native Proficiency in English, Elementary Proficiency in Japanese.

PROJECTS

SOCIAL NETWORKING QUIZ WEBSITE, 08/2021 - 12/2021 | JavaScript, React, NodeJS, MongoDB
- Designed mockups and then translated those ideas into a functional social networking site as part of a 4-person team.
- Implemented a global site search, which efficiently fetched quizzes, user profiles, and community pages from our database.
- Utilized the MERN stack (MongoDB, Express.js, React.js, and NodeJS).
- Automated testing and deployment using GitHub CI/CD.
- Provided secure and streamlined account creation and log-on services using Google Single Sign-On.

COVID-19 EMPLOYEE TESTING PORTAL, 10/2020 - 12/2020 | JavaScript, React, NodeJS, MongoDB
- Collaborated to design and implement a data entry portal for university employees to report COVID-19 testing results.
- Site made heavy use of React props and components, making code highly reusable.
- Utilized MongoDB for high-performance database access and the flexibility necessary during the pandemic.
- Employed responsive design principles to ensure the site worked smoothly across desktop, tablet, and mobile devices.

DEEP LEARNING-BASED WORD SENSE IDENTIFIER, 03/2021 - 04/2021 | Python, PyTorch, NumPy
- Using Python with PyTorch and NumPy libraries, designed and trained a model that utilizes deep learning to identify the meaning of words based on context provided by surrounding words in the sentence.
- Later expanded on this project by using the same context data in a probabilistic language model to generate new sentences.

EXTRACURRICULARS

STONY BROOK UNIVERSITY CYBERSECURITY CLUB Stony Brook, NY | 2021 - 2022
Member
- Participated in seminars on various aspects of computer security including network and cellular security.
- Discussed essential cybersecurity skills, techniques, and encryption algorithms like RSA and DH key exchange in depth.

STONY BROOK GAME DEVELOPERS CLUB Stony Brook, NY | 2021 – 2022
Member
- Discussed various aspects of game development and attended workshops on creative skills and technologies.
- Participated in game programming competitions, where contestants' submissions were judged by industry professionals.

STONY BROOK UNIVERSITY KENDO CLUB Stony Brook, NY | 2021 – 2022
Member
- Met twice a week to train in modern Japanese martial arts.