

You-Kwhan Kim

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EDUCATION

STONY BROOK UNIVERSITY

Bachelor of Science in Applied Mathematics and Statistics, Economics | *Dean's List 2018 - 2022*

Sept 2018 - May 2022

Stony Brook, NY

Courses: Data Structures and Algorithms, Object-Oriented Programming in Java, Graph Theory, Discrete Math, Data Analytics, Statistical Programming, Data Science and Machine Learning, Linear Algebra

PROGRAMMING SKILLS

Programming: Python, Javascript, HTML, CSS,

Frameworks and tools: Git, Github, React.js, Firebase, Figma, Bootstrap, Pygame

EXPERIENCE

Headstarter

June 2022 - Sep 2022

Software Engineering Fellow

New York, NY

- Accomplished the selection as a Software Engineering Fellow out of 700+ candidates, with a 14% acceptance rate.
- Achieved 99% uptime and real-time data entry capabilities by building a full-stack application with React.js and serverless APIs using Firebase Cloud.
- Led the development of 3 CRUD applications from design to deployment, alongside 4+ fellows through the use of Agile and MVC design patterns.

Seed Learning Center

May 2018 - Aug 2018

Software Engineering TA

Hartsdale, NY

- Contributed to lesson planning, material prep and implementation of lessons to support readiness in computer science fundamentals and introduction to python.
- Assisted in the provision of support and oversight in the classroom alongside the primary teacher, helping to ensure the quality of learning for 2 students.
- Accomplished the development of projects alongside students, including a chess game, by implementing object-oriented programming concepts and techniques through collaboration and guidance.

SBUHacks

[SBUHacks 2020](#)

Technical Assistance

Stony Brook, NY

- Provided guidance in the 1st Stony Brook Hackathon, which attracted over 800 registrations and 300 participants, through participation and leadership
- Designed a racing game using pygame, in collaboration with a team of 4, by learning and exploring the fundamentals of game development, such as principles of 2D graphics, animation, sound, and collision detection.

PROJECTS

QuikPic | React.js, Tailwind CSS, Sanity

[Live](#) | [Github](#)

- Created a Full Stack Social Media application, aimed towards sharing user experiences through photographs.
- Achieved complete control over posts for users by designing and implementing a Sanity API based on CRUD operations and designing schemas using Sanity Studio as the backend and React.js as the frontend.

Automated Resume Parser | React.js, JavaScript, Firebase, Figma, CSS

[Github](#)

- Developed a website that allows applicants to upload their resumes and recruiters to search for candidates.
- Implemented a backend component that parses through PDFs and indexes key information for faster lookup time.

Team Scheduler | React.js, Javascript, Firebase, CSS (Bootstrap)

[Github](#)

- Accomplished an improvement in group efficiency through the development of a project management calendar serving as a client interface.
- Enhanced the authentication state management of each user by integrating the Context API and storing it in Firebase.
- Leveraged Cloud Firestore for CRUD operations, Whereby APIs for video conferencing, and node packages to schedule team meetings and send email notifications.

Reef Reviver | InnovateIT Hackathon

[Reef Reviver](#)

First Place Winner

- Winner of the "Best First Time Hacker" out of 40 participants at Stony Brook University.
- In 24 hours assessed world problems and suggested possible solutions to rising temperature in our coral reefs.
- Led a team of 3, in the designing phase of development using Autodesk Inventor.