Scott Watanuki

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EDUCATION

Georgia Institute of Technology   Expected Graduation: May 2025
Bachelor of Science in Computer Science   *GPA: 3.7/4.0*
- **Concentrations**: Artificial Intelligence, Information Internetworks
- **Coursework**: Object Oriented Programming, Computing with Python, Discrete Mathematics, Linear Algebra

WORK EXPERIENCE

Software Engineer Intern   November 2022 – Present
GL Navigation
- Revamped process of retrieving video files from Box by creating Python program using Box SDK
- Redesigned and improved speaker data collection process by 50% using Python and OpenCV
- Created a Python-based web scraping program to extract textual data utilized for training machine learning model
- Implemented object-oriented programming techniques to modularize code, resulting in a 50% reduction in code

Software Engineer Intern   June 2022 – August 2022
GL Navigation
- Programmed software for quantifying student engagement in tutoring sessions via speaker ratio
- Built programs to compute speaker ration and speaking speed using Python and outputted results to CSV
- Both programs allowed for visualization of student performance, improving student engagement ratio by 20%
- Streamlined process by using AWS Transcribe to output JSON file containing speaker segmentation data

Machine Learning Engineer   April 2021 – October 2021
'Iolani School - John and Violet Kay Summer Research Fellowship
- Developed a convolutional neural network using Python to diagnose cataracts, achieving accuracy rate of 93.41%
- Utilized TensorFlow, Keras, Numpy, and Matplotlib to develop the model and visualize results in a graph
- Tested five optimization algorithms and six learning rates on transfer learning model to prevent false diagnosis
- Incorporated data augmentation and dropout layers to prevent overfitting of the model and reduce loss rate

PROJECTS

PlanNEXT | *C, Git, GitHub*
- Engineered a command-line tool which aids high school students in building a personalized schedule
- Designed program to consider factors including bell schedule, commute time, etc. to increase productivity by 5%

LifeStyleX | *C, Git GitHub*
- Programmed a command-line tool which provides users a tailored lifestyle schedule based on their sleep chronotype
- Implemented user-friendly design, obtaining 30 active users within 24 hours after release

LEADERSHIP AND AWARDS

Vice President of Technology | *Big Data Big Impact @ Georgia Tech*   July 2022 – Present
- Mentoring 10 tech and project leads, guiding for successful execution of software projects leveraging AI & big data
- Managing and developing the curriculum of a massive open online course on fundamental software concepts

Founder | *Nalukai Academy Startup Camp*   June 2022 – July 2022
- Developed website for new business and obtained 56 views in 48 hours after deployment
- Led four-person team to develop a business plan and create a business model for selling movable desks

Founder | *Stanford e-Entrepreneurship*   July 2021 – October 2021
- Led four-person team to win a startup pitch competition evaluated by Venture Capitalists from Silicon Valley
- Obtained the highest final grade of 98%, resulting in an award of honor given to the highest performing student

SKILLS

Programming Languages: Python, Java, JavaScript, HTML/CSS, C/C++
Developer Tools: Git, GitHub, Tensorflow, Keras, Matplotlib, NumPy, Amazon Web Services
Concepts: Data Structures, Algorithms, Backend, Machine Learning, Computer Vision, Frontend
Spoken Languages: English - Native Proficiency, Japanese - Native Proficiency