Scott Watanuki

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EDUCATION

Georgia Institute of Technology Expected Graduation: May 2025
Bachelor of Science in Computer Science *Major GPA: 4.0/4.0*
- **Concentration**: 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
- Enhanced customer satisfaction by 15% through implementing emotion recognition model for feedback analysis
- 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
- Reduced code base by 50% by implementing object-oriented programming techniques to modularize 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 ratio 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
- Achieved 93.41% accuracy in diagnosing cataracts by developing a convolution neural network using Python
- Developed model and visualized results using transfer learning model with TensorFlow, Keras, Numpy, Matplotlib
- Decreased false diagnosis through testing five optimization algorithms and six learning rates
- Prevented overfitting of the model and reduced loss rate by Incorporating data augmentation and dropout layers

PROJECTS

PlanNEXT | *C, Git, GitHub*
- Engineered a command-line tool which aids students in building a personalized schedule
- Increased productivity 10% by considering factors including bell schedule, commute time, etc.

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

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/TypeScript, HTML/CSS, C/C++
Developer Tools: Git, GitHub, Tensorflow, Keras, OpenCV, Pandas, Matplotlib, NumPy, AWS, JSON
Concepts: Data Structures, Algorithms, Machine Learning, Computer Vision, Backend, Frontend, Full Stack
Spoken Languages: English - Native Proficiency, Japanese - Native Proficiency