# Scott Watanuki

U.S. Citizen | scottwatanuki@gatech.edu | linkedin.com/in/scottwatanuki/ | github.com/scottwatanuki | 808-940-1047

## EDUCATION

**Georgia Institute of Technology**                                          Expected Graduation: May 2025
*Bachelor of Science in Computer Science*                                          *Major GPA: 4.0/4.0*
- **Specializations**: Artificial Intelligence, Information Internetworks
- **Relevant Coursework**: Data Structures and Algorithms, Software Objects and Design, Computer Organization and Programming, Object Oriented Programming, Introduction to Computing, Probability and Statistics, Multivariable Calculus, Discrete Mathematics, Linear Algebra

## WORK EXPERIENCE

**Software Engineer Intern**                                          November 2022 – August 2023
*GL Navigation*
- Implemented machine learning based emotion recognition model using Python, OpenCV, DeepFace
- Incorporated parallel/batch processing, and TensorFlow to enhance emotion recognition model's runtime
- Designed fast and lightweight database for storing images to be used in the emotion recognition model
- Automated video retrieving process to increase developer productivity by utilizing Python and Box SDK
- Created Python-based web scraper to extract textual data using Selenium Webdriver and BeautifulSoup
- Reduced code base by 50% by implementing object-oriented programming techniques to modularize code

**Software Engineer Intern**                                          June 2022 – August 2022
*GL Navigation*
- Redesigned and improved speaker data collection process by 50% using Python and OpenCV
- Increased student engagement by 20% by quantifying speaker frequency and speed using Python and OpenCV
- Visualized results to CSV file for increased user experience in interpreting data and further analysis
- Streamlined data preprocessing using AWS Transcribe to output JSON file containing speaker segmentation data

**Machine Learning Engineer Intern**                                          April 2021 – October 2021
*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

**LifeStyleX** | *C*
- Programmed a command-line tool providing users a tailored lifestyle schedule based on their sleep chronotype
- Attracted 30 active users within 24 hours after release through user-friendly design, receiving 4.5/5 rating

## 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
- Orchestrating web development team for development and maintenance of the organization's website

**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 & Award of Honor** | *Stanford e-Entrepreneurship*                                          July 2021 – October 2021
- Directed 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, Linux, Tensorflow, Keras, OpenCV, Pandas, Matplotlib, NumPy, AWS, JSON, Selenium Webdriver, BeautifulSoup, JavaFX
**Spoken Languages**: English - Native Proficiency, Japanese - Native Proficiency