

# Scott Watanuki

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

## EDUCATION

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### Georgia Institute of Technology

*Bachelor of Science in Computer Science*

Expected Graduation: May 2025

Major GPA: 4.0/4.0

- **Concentration:** Artificial Intelligence, Information Internetworks
- **Coursework:** Object Oriented Programming, Computing with Python, Discrete Mathematics, Linear Algebra

## WORK EXPERIENCE

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### 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

*Tolani 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

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### 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

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### 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

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**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