

# 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*

- Enhanced customer satisfaction by 15% through implementing emotion recognition model for feedback analysis
- Automated video retrieving process to increase coworker's productivity by utilizing Python and Box SDK
- 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*

- 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

April 2021 – October 2021

*Tolani 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

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### PlanNEXT | C, Git, GitHub

- Engineered a command-line tool to aid student in building a personalized schedule for time management
- Increased productivity 10% by considering factors including bell schedule, commute time, commitments, etc.

### LifeStyleX | C, Git, GitHub

- Programmed a command-line tool which provides users a tailored lifestyle schedule based on their sleep chronotype
- Attracted 30 active users within 24 hours after release through user-friendly design with 4.5/5 rating

## 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

- 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

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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