

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

- **Specializations:** Artificial Intelligence, Information Internetworks
- **Relevant Coursework:** Software Engineering and Software Design, Data Structures and Algorithms, Object Oriented Programming, Computer Organization and 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
- 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 and Researcher

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

2D Dungeon Crawler Game | Java, Android Studio, Gradle, Git, GitHub

- Designing and developing 2D Dungeon Crawler game where players navigate rooms and combat enemies
- Creating domain models, use case diagrams, and singleton design patterns along with extensive testing of code

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 | 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, Android Studio, Gradle, Selenium Webdriver, BeautifulSoup, JavaFX

Concepts: Backend, Frontend, Fullstack, API, Machine Learning, Computer Vision, Object Oriented Analysis/Design, CI/CD, Testing, Agile, Waterfall