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
- 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

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

Real Work | *HTML, CSS, JavaScript*

- Built time tracking app by introducing intensity tracking, a novel feature enabling quantification of work quality
- Allows users to freely customize their study sessions unlike traditional pomodoro timers with fixed time intervals

PlanNEXT | *C*

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

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