## **Anthony Wong**

651-235-2174 | afxwong@gmail.com | U.S. Citizen | https://www.linkedin.com/in/afxwong/ | GitHub: afxwong

#### **Education**

# Georgia Institute of Technology B.S. & M.S. in Computer Science

Atlanta, GA

August 2020 - December 2024 (Expected)

- · B.S. Concentration: Intelligence and Info Internetworks (Machine Learning and Computer Networking)
- · M.S. Concentration: Machine Learning
- **B.S. GPA (to be completed December 2023):** 3.96/4.0
- Coursework: System Design, Computer Systems & Networking, AI, Database Systems, Robotics & Perception, Design & Analysis of Algorithms, Machine Learning, Deep Learning, Information Security, Big Data Systems & Analytics

#### **Work Experience**

Salesforce Software Engineer Intern San Francisco, CA

May 2023 - August 2023

- · Merged new *Java* code and created new functionality in Salesforce's core platform to resolve the well-known Multi-Select Picklist issue, resulting in an enhanced user experience and fulfillment of customer feedback and asks.
- Enforced test-driven development by utilizing Selenium for UI tests and functional tests on various user interface changes, ensuring robust quality assurance for client-facing modifications.
- Worked to support and innovate on platform data model that underlies the fundamental functionality of Salesforce Customer 360, their main product.

#### General Motors Big Data Analytics Intern

PowerBI frontend.

Warren, MI

- Big Data Analytics Intern

  May 2022 August 2022

  Leveraged SQL to wrangle data from data lakes housed in a Hadoop environment for the eventual visualization on a
- Designed and implemented a database schema model in *PowerBI* to generate reports that were used to drive continual cost-savings and helped the team meet sustainability goals for the quarter.
- Generated elegant *PowerBI* reports based on retrieved data and presented them to engineering and finance teams to aid in decision-making in pursuit of lower costs and GM's zero emissions initiative.

# **Georgia Tech Research Institute Electronic Systems Integration Intern**

Atlanta, GA

May 2021 - August 2021

- · Constructed dynamic GUIs using *C#* to help test military hardware communication systems.
- Designed a system involving *UDP* capable *C#* programs and a singleton broker to simulate status communication systems within various aircraft.
- Automated code validation and deployment by developing unit tests, creating Jenkins scripts, and installing Jenkins pipelines.

#### **Projects**

## **LEENet: Learned Early Exit Network**

August 2023 - Present

- · Conceived of a novel Deep Neural Network architecture that uses the existing concept of early exiting to improve the efficiency of existing pretrained networks, such as ResNet, DenseNet, VGG, etc.
- Leveraged the Torch ML framework to implement a model wrapper that allows a neural network to use early exiting, along with a custom loss function that weighs accuracy against computational savings
- · One of our many results show a 25% time savings with a 5% accuracy drop on ResNet50 trained on ImageNetTE
- · The current plan is to publish our results after running more comparison studies with our results and previous work

### Rogue's Gallery (Post-Moore Computing) (Georgia Tech Vertically Integrated Project)

**January 2022 - June 2023** 

- Investigating neuromorphic computing methods for applications in low power autonomous vehicles to reduce power consumption by 90%.
- · Classified EEG data of body part activation via spiking neural networks (SNNs) implemented on a low-power FPGA to see if this technology could be used in the realm of prosthetics.
- · Working on qualifying scenarios (scenarios currently from OpenAIGym) where neuromorphic algorithms perform better than their non-neuromorphic counterparts.

### **Activities/Leadership**

- Teaching Assistant for CS4510 (Complexity and Automata)
- Vice President of Learning & Development and Marketing Chair for Big Data Big Impact at Georgia Tech
- College Coach at WeAdmit Technologies

#### **Skills**

Programming: Python, Java, SQL, C, JavaScript, C#, HTML/CSS, LabVIEW

**Tools/Concepts:** Jenkins, Jupyter, ReactJS, Django, Flask, Socket Programming, Atlassian Suite, Git, Perforce, Agile Methodologies, PowerBI, Docker, AWS, VSCode, IntelliJ, MySQL, Apache Hadoop, Apache Spark