

# ANDREW GAO

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## EDUCATION

**BACHELOR OF SCIENCE AND MASTERS OF SCIENCE IN COMPUTER SCIENCE**

**AUG 2021 - EXPECTED: MAY 2025**

*Georgia Institute of Technology | Atlanta, Georgia*

GPA: 3.94

- Relevant Coursework: Intro to Object Oriented Programming, Data Structures and Algorithms, Design and Analysis - Algorithms, Computer Organization and Programming, Intro to Artificial Intelligence, Intro to Robotics and Perception, Computer Graphics, Machine Learning, Computer Audio, Data Visualization, Automata and Complexity, Advanced Privacy Topics, Deep Learning
- Clubs: VGDev, Asian American Student Association, GT Barbell
- Faculty Honors - Spring 2022, Fall 2022

## WORK EXPERIENCE

**SOFTWARE ENGINEERING INTERN**

**KLA CORPORATION**

**MAY 2023 - AUG 2023**

- Recreated current batch job infrastructure using a Docker Compose framework, leveraging NATS messaging, PostgreSQL databases, gRPC APIs, and a json job scheduler.
- Researched, identified, and compared suitable data streaming technologies to allow real-time insight generation, letting KLA engineers predict and respond to issues, saving KLA and its customers money and time.
- Created a functional Proof of Concept using Apache infrastructures converting the current batch-based job scheduling system to a real-time streaming architecture that ran predictive algorithms and output live insights.
- Presented weekly research PowerPoints to the entire FleetHub team.

**CLOUD AUTOMATION/DEVOPS CO-OP**

**KIMBERLY-CLARK CORPORATION**

**MAY 2022 - DEC 2022**

- Wrote over a dozen Terraform modules enabling the automated deployment and maintenance of a variety of Azure resources, as well as allowing seamless integration into existing codebases.
- Developed a Powershell module that automates data export from hundreds of company repositories and imports received data to the GWS Database.
- Programmed a Terraform module to provision creation and upkeep for website monitors for over 600 Kimberly-Clark websites.
- Designed a webpage using MudBlazor and .NET C# allowing a user to check the health of any given website and perform tasks such as a DNS DIG, Uptime checks, and SSL certificate checks.
- Acquired valuable workplace experience with Agile Development and SOLID principles.

## PROJECT EXPERIENCE

**SMART STADIUM MACHINE LEARNING TEAM**

**VERTICALLY INTEGRATED PROJECT**

**JAN 2023 - PRESENT**

- Organized a team-wide data cleaning effort on thousands of video clips.
- Performed hyper-parameterization on the convolutional neural network model.
- Investigated incorrectly classified video clips to identify possible patterns.
- Delivered bi-weekly presentations to the Smart Stadium team to update members on new developments.
- Submitted research paper to the 2023 IEEE PIMRC and 2024 Sloan Sports Conference.

**PARAVOID SOFTWARE TEAM LEAD**

**GT VGDEV**

**SEP 2021 - JAN 2022**

- Lead, organize, and plan all software team meetings.
- Communicated goals and priorities set by the project lead to over 20 other programmers.
- Assign tasks to all team members and promote teamwork.
- Assist inexperienced members in learning the Unity API, C#, and Git.
- Inspect, finalize, and approve all code.

## SKILLS

- Java, Python, C#, JavaScript, Git, Unity, Terraform, PowerShell, .NET, MudBlazor, Azure, REST API, gRPC API, NATS, Docker, PostgreSQL, Apache Spark, Apache Kafka, Apache Camel
- Communication, Leadership, Adaptability, Teamwork, Problem-Solving