

# Sainitin Daverpally

Atlanta, Georgia | [s.daverpally@gmail.com](mailto:s.daverpally@gmail.com) | [sainitind.github.io](https://sainitind.github.io) | Permanent Resident

## Education

**Georgia Institute of Technology, Atlanta, GA**  
*B.S in Computer Science*

**Expected Graduation: Dec 2023**

Relevant Courses: Data Structures and Algorithms, Analysis of Algorithms, Intro to OOP, Computer Org & Programming, Objects and Design, Computer Graphics, Intro to Computer Vision, Machine Learning, Computer Animation

## Experience

**Nike** Jun 2023 – Aug 2023  
*Software Engineering Intern | Python, Spark, Databricks, Git, Groovy* Beaverton, Oregon

- Created two courses on Databricks and Spark that achieved 2x views than other courses in the internal training website
- Provided adoption process on Databricks/Apache Kafka checkpointing which led to a 15% reduction in streaming job costs
- Wrote a POC in python, spark with 120+ views in internal training to send/receive data from Kafka stream into Databricks

**OnSolve LLC** Jun 2022 – Aug 2022  
*Software Engineering Intern | Java, Spring Boot, SQL, PostgreSQL, Git* Alpharetta, Georgia

- Developed a Spring Boot/MVC Java application and SQL services to read/transform a client's 2 million plus employee data
  - Worked on receiving data over SFTP and utilize RESTful API to add modified data into internal PostgreSQL database
- Wrote Dynamic SQL queries, procedures to efficiently record changes between large tables
- Utilized JUnit, Mockito testing libraries and wrote over 45-unit tests and achieving over 80% test coverage
- Worked with Threads, Java NIO, Micro-services, Docker, Git, GitLab, CI/CD, Agile, RabbitMQ, Test-Driven Development

**Conserve Innovations LLC** Aug 2020 – May 2021  
*App Engineering Intern | Dart, Flutter, Figma, Firebase, Git, Github* Atlanta, Georgia

- Designed in Figma and Revamped Coupon page, Profile Page, Leaderboard Page by using Flutter's UI components
- Developed various custom UI screens, alerts, components including 4 frequently used screens
- Developed coupon service using Dart, data streams, asynchronous programming, custom dependency injection
- Worked on NoSQL Database to fetch data dynamically from DB tables and provide coupon data to frontend resulting in an increase of 150% of coupon usage
- Maintained version control with Git and Managed project repository, track issues with GitHub

## Projects

**Discord Bot | Python, PyCord, SQL, Matplotlib**

- Using PyCord developed a discord bot to detect/record specific 'snipe' messages to help support campus-wide game
- Wrote over 10 custom commands and 50 SQL-queries to view personal, community and weekly statistics
- Deployed the bot on Fly.io to run 24/7 and support a server with over 150 users

**Korean Character Classification | Python, Matplotlib, Pytorch, Pandas, Sklearn**

- Led a group of 4 students to create a classification model using transfer learning on VGG19 achieving 72% test accuracy
- Trained the model on over 260850 images of over 2350 Korean characters of 244x244 image size
- Utilized Principal Component Analysis using Sklearn with around 90-95% variance reducing the dataset by over 89% in size

**Peer-to-Peer Livestreaming | JavaScript, Express.js, Bootstrap, EJS, WebRTC, Socket.io, SQL, Cloud Firestore**

- Utilized NodeJS, ExpressJS, WebRTC, Socketio to create a peer-to-peer livestreaming webapp with livechat without plugins
- Transferred video/display data to users, allowing livestreams with up to 100 concurrent viewers using Socketio, PeerJS
- Wrote login and main pages using HTML/CSS, Bootstrap, EJS and backend with NodeJS and ExpressJS

## Leadership Experience

**Senior Teacher Assistant – CS 2110 (Computer Organization & Programming) | Georgia Tech** Jan 2023 – May 2023

- Managing a team of 30 teacher assistants to create & publish 8 Homeworks biweekly for over 800 students
- Wrote and published a JavaScript/python, Flask webapp that scrapes CIOs data and displays it achieving over 18,000 visits

## Skills

- **Languages:** Python, Java, JavaScript, HTML/CSS, C, SQL, Dart
- **Technologies/Frameworks:** Flask, JavaScript (React), Express.js, Node.js, Flutter (Google), Unity, Spring, Git, GitHub, Pandas, Matplotlib, Pytorch, PostgreSQL, MySQL, Docker, Java testing libraries, Cloud Fire store, UNIX, Databricks, Spark