

# Nikil Kumar Kandala

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

August 2022 - Expected May 2026

- GPA:** 3.64/4.0, *Dean's List, Faculty Honors*
- Concentrations:** Artificial Intelligence and Information Internetworks
- Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Systems and Networks, Computer Organization and Architecture, Machine Learning, Artificial Intelligence, Linear Algebra, OOP, Intro to Databases

### Seminole High School

Sanford, FL

High School Diploma - Summa Cum Laude | International Baccalaureate Program

Graduated May 2022

## SKILLS

**Languages:** Java, Python, JavaScript, C/C++, HTML/CSS, Typescript, SQL

**Frameworks/Libraries:** React.js, React Native, Node.js, CUDA, Kubernetes, PyTorch, TensorFlow, Playwright, NumPy

**Tools:** Git, AWS, Firebase, Figma, Jupyter Notebook, Docker, REST API, Conda, NoSQL, MongoDB, Word, PowerPoint, Excel

## EXPERIENCE

### Frontline Insurance

Lake Mary, FL

Software Development Engineer in Test Intern

June 2024 – August 2024

- Automated over 150 test cases for an insurance claim center application using TypeScript and Playwright
- Refactored 62 Selenium test scripts into Playwright, improving test execution by 12% and long-term maintainability
- Implemented API-based automation testing which reduced dependency on UI testing by 40%
- Increased and documented test coverage for backend functionalities

### Frontline Insurance

Lake Mary, FL

System Administrator Intern

June 2023 – August 2023

- Determined and removed software vulnerabilities on ~480 machines using cybersecurity asset platform Sevco
- Provided support as a service desk repair technician to over 10 employees daily using Jira tickets
- Managed user templates for 15 groups using RSAT tools in Active Directory ensuring accurate permissions and access

### 3D Hologroup

Orlando, FL

Software Development Engineer Intern

January 2021 – May 2022

- Developed software using the game engine Unity and implemented healthcare APIs using JSON and C#
- Deployed augmented reality solutions that improved task completion rate by 20% for users with impairments
- Created an AR company database tool for Microsoft HoloLens improving the efficiency of manipulation tasks

## PROJECTS

### AI Image Classifier | Python, PyTorch, TensorFlow, Docker, Kubernetes, CUDA, CI/CD Pipeline

December 2024 – January 2025

- Image classifier achieving 85% accuracy on CIFAR10 dataset through GPU-accelerated deep learning
- Containerized with Docker and deployed on Kubernetes to utilize dynamic scaling and fault tolerance
- Optimized inference throughput by 22% using NVIDIA CUDA and Kubernetes GPU resource allocation
- Implemented horizontal pod autoscaling to maintain sub-100ms API latency under varying traffic loads
- Automated deployment using CI/CD pipelines and monitored performance using Prometheus and Grafana

### Hobby Store | Node.js, Express.js, EJS, WebSockets, NoSQL, MongoDB, Mongoose, GraphQL

August 2024 – January 2025

- Developed an online web store for newcomers to explore hobbies like running and comics for over 20 users
- Rendered HTML dynamically on the server using EJS and streamlined routing and applied middleware using Express.js
- Leveraged WebSockets to implement sub-100ms latency for live interactions between clients and server
- Applied a NoSQL database solution with MongoDB and Mongoose to handle over 1000 records

### Extropian Sports Analytics | Python, React, Firebase, Figma

August 2024 – Present

- Working w/startup Extropian to create data analytics/visualizations for golf wearable tech with expected 3000 users
- Spearheading the development of a mobile application for Android/iOS with seamless pairing with tracking devices
- Conducted heuristic testing for early minimum marketable features using Figma with 20 testers

## LEADERSHIP AND INVOLVEMENT

### Phi Kappa Tau Fraternity, Georgia Tech

Atlanta, GA

Steward

January 2025 – Present

- Working closely with chef and food service company to manage meal plans for over 100 members

### Rowing Club, Georgia Tech

Atlanta, GA

Athlete

August 2022 – Present