# Rohan Batra

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## EDUCATION

**Georgia Institute of Technology,** Atlanta, GA                                                                    *Expected May 2024*
Bachelor of Science in Computer Science, GPA: 3.96/4.0 *(Highest Honors)*

## WORK EXPERIENCE

**Nordstrom, Inc.,** *Software Engineer Intern*, Seattle, WA                                                *June 2023 – August 2023*
- Software Engineer Intern in the Nordstrom Analytics Platform (NAP), Data and Analytics Services
- Xyz
- Abc
- pqr

**Nordstrom, Inc.,** *Software Engineer Intern*, Seattle, WA                                                *June 2022 – August 2022*
- Software Engineer Intern in the Machine Learning Platform (MLP), Data and Analytics Services
- Migrated all MLP users' credentials from Kubernetes to HashiCorp Vault and upgraded UI for operational enhancement
- Developed efficient scripts and made API modifications compliant with Nordstrom standards (REST API, Python, HTTP Headers, Logging), and wrote extensive unit, integration, and end-to-end testing codes for Python and Shell programs
- Improved the logic of storing connections by creating a loosely coupled and practical secrets management system

**Georgia Institute of Technology,** *Undergraduate Teaching Assistant*, Atlanta, GA                *January 2022 - Present*
- Teaching assistant for CS2340: Objects and Design, and formerly for CS2050: Discrete Mathematics
- Led office hours and recitation sessions for Android app development, algorithms, and industry standard procedural needs
- Assisted about 700 students a semester and helped the professor run the course smoothly by grading coursework

## SKILLS

**Programming Languages:** Python, Java, HTML, CSS, JavaScript, Swift, C/C++, Assembly, Shell, Ruby, SQL
**Database, Frameworks, and Software:** Scikit-learn, NumPy, Pandas, Git, Gitlab, JavaFX, Maven, Azure, Node.js, React, Firebase, Kubernetes (k8s), HashiCorp Vault, Docker, AWS, New Relic, Arduino, Flask, REST, Bootstrap, MaterialUI, Heroku, Teradata
**Digital skills:** Machine learning implementations, NLP, BoTs, UI/UX, Game Development, Android and iOS development

## RESEARCH

**Automated Algorithm Design, sponsored by Google and L3Harris Technologies**        *August 2021 – December 2022*
- Co-leader of Natural Language Processing Team, after being co-leader of the Scoliosis Measurements team
- Customized Hugging Face transformers as BERT, GPT, GloVe, word2vec, etc. for chatbot development. Built mathematical python scripts on Azure for DICOM image analysis using Evolutionary Multi-objective Algorithm Design Engine, machine learning, genetic programming, computer vision, and convolutional neural networks to identify adolescent idiopathic scoliosis
- Aided ongoing research at Georgia Tech Research Institute and Shriner's Hospital, FL to support children health

## PROJECTS

**ClassMate: Innovative Social Media Application** Georgia Institute of Technology, Atlanta, GA        *February 2022 - June 2022*
- Sole developer of the App as per iOS Club policy, which can be white-labeled, or integrated into likes of GroupMe, and Meta
- Pioneered the implementation of unique ID-based life cycle management in relevant cohorts for Georgia Tech students; using React, HTML, CSS, Firebase, and Ruby, and built the iOS version using Swift with add-ons from OpenAI's API

**Tower Defense Game**, Georgia Institute of Technology, Atlanta, GA                            *August 2021- December 2021*
- Full stack developer in a five-member team to craft a multifaceted strategy game using JavaFX, FXGL, and Maven
- Enhanced the UI layout and strengthened the complex backend mechanisms of the game

**FoodRush: Online Food Ordering System,** Georgia Institute of Technology, Atlanta, GA                    *November 2020*
- Sole developer of the E-commerce website with unique implementation by orchestrating HTML, React, and CSS codes
- Optimized functionality of all operations, and created a sophisticated user interface, which secured a 10/10 review score
- Elevated data retrieval by over 80% via Python web scraping of DoorDash and Yelp, enabling menu views and user reviews

## LEADERSHIP

**Community Outreach Program with Emory Hospital,** Atlanta, GA                            *August 2020 - December 2020*
- As the leader of a 4-member team, led engagement with hospital officials, prepared documentation, assigned tasks to team members, developed process workflow, generated mobile app design and its navigation architecture using Adobe XD
- Spread awareness about healthy heart-related resources at Emory for Atlanta residents via an advisory workflow