

# 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
- Developed a solution in Python eliminating human errors in metadata ingestion workflow and processes used by data scientists
- Engineered a novel system enhancing the metadata processor capability for integration with Teradata DB and DevOps pipeline
- Transformed files to Data Definition Language and Data Manipulation Language for contextual content update in the database
- Efficiency improvement in the metadata entry process by an impressive ~40%, causing a significant productivity boost

**Nordstrom, Inc., Software Engineer Intern**, Seattle, WA

*June 2022 – August 2022*

- Software Engineer Intern in the Machine Learning Platform (MLP), Data and Analytics Services
- Transformed MLP users' credentials ecosystem from Kubernetes to HashiCorp Vault and upgraded UI for operational ease
- 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

**Software and Database:** GitLab, JavaFX, Maven, Azure, Node.js, Software Development Life Cycle (SDLC), AWS, Firebase, Kubernetes (k8s), Docker, HashiCorp Vault, New Relic, Arduino, Bots, Heroku, Teradata, JFrog Artifactory

**Libraries and Frameworks:** Scikit-learn, NumPy, Pandas, Git, Large Language Models, React, MaterialUI, Bootstrap, Flask, REST

**Digital skills:** Machine learning algorithms/models, Generative AI, UI/UX, System Design, Games, 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 like BERT, GPT, GloVe, word2vec, etc. for chatbot development. Used Python on Azure for DICOM image analysis utilizing Evolutionary Multi-objective Algorithm Design Engine, machine learning, genetic programming, computer vision, and convolutional neural networks to predict the probability of 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

*January 2023 - April 2023*

- Sole developer with directional inputs from iOS Club, which can be white-labeled or integrated into likes of GroupMe, 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 and wired the complex backend involving player movement, tower placement, and enemy health features

**FoodRush: Online Food Ordering System**, Georgia Institute of Technology, Atlanta, GA

*November 2020*

- Developed an Ecommerce site employing React, HTML, CSS codes for an elegant UI, which got 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, and 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