

Rohan Batra

Atlanta, GA | 4709098524 | rbatra34@gatech.edu | linkedin.com/in/rohanbatra4 | github.com/rohanbatra4 | rohanbatra4.github.io

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
- Augmented efficiency 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
- Crafted optimized scripts and made API modifications compliant with Nordstrom standards (REST API, Dashboards, HTTP Headers, Logging) and wrote unit, integration, and end-to-end tests with 95% test coverage for Python and Shell programs
- Devised a practical secrets management system, resulting in a 60% increase in loose coupling for connections storage

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
- Aided 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, Postman, Linux, Splunk

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, Game, Android, and iOS development

RESEARCH

Automated Algorithm Design, sponsored by Google and L3Harris Technologies

August 2021 – December 2022

- Co-leader of the 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
- Contributed to 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

- Created a smart group discovery app with inputs from iOS Club, which can be white-labeled into likes of GroupMe, Meta
- Pioneered implementation of unique class ID-based life cycle management for college students using React, HTML, CSS, Firebase, and Ruby and built an iOS model using Swift with OpenAI's API add-ons, achieving A grade usability

Tower Defense Game, Georgia Institute of Technology, Atlanta, GA

August 2021- December 2021

- Designed a multifaceted strategy game using JavaFX, FXGL, and Maven as the full-stack developer in a five-member team
- 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

- Managed 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 as the leader of a 4-member team
- Spread awareness about healthy heart-related resources at Emory for Atlanta residents via an advisory workflow