Rudra Amin

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EDUCATION

Georgia Institute of Technology
Atlanta, GA

*Bachelor of Science in Computer Science; **GPA: 4.0/4.0***
August 2022 - May 2025

- **Concentrations:** Intelligence and Information Internetworks
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Computer Organization & Programming, Multivariable Calculus, Discrete Mathematics, Linear Algebra, Database Systems
- **Extracurriculars:** GT WebDev, Data Science @ GT, Google Developer Student Clubs, BAPS Fellowship

EXPERIENCE

College of Computing at Georgia Tech
Atlanta, GA

Undergraduate Teaching Assistant
August 2023 – Present

- Utilized & maintained a Docker container for efficient application sharing with students
- Taught a weekly recitation to over 80 students and created JUnit tests, weekly worksheets, projects, and presentations
- Wrote autograder shell scripts using Bash to grade student homework and project submissions

KemNu Inc.
Atlanta, GA

Full Stack Web Developer Intern
May 2023 – August 2023

- Employed Google Firebase Realtime Database to post & retrieve user event data and harnessed Google Firebase Authentication to verify new users using phone number & email verification
- Used JavaScript, Day.js, and React Hooks to build the backend for the dynamic calendar and points/rewards features
- Utilized React.js coupled with MaterialUI and CSS to build the Event Registration and Group Chat components of the user interface to allow 90+ organizations and 800+ members to sign up for events and communicate within the application

PROJECTS

Dungeon Crawler Application
August 2023 – November 2023

- Video Game Application built using JavaFX & CSS for the frontend and Java for the backend
- Followed Agile Methodology and design principles including SOLID and GRASP principles
- Built application using Test Driven Development by creating tests through TestFX and JUnit
- Led project through weekly meetings as the Scrum Master and placed fifth out of 140+ teams in the Final Competition

Stock Predictor
July 2023 – August 2023

- Utilized Python libraries including NumPy, Pandas, and Scikit-learn for data manipulation and analysis
- Scripted the predictive stock price model and obtained a prediction accuracy of 91.17%
- Trained mathematical models to predict stock price trends using Naive Bayes, Neural Networks, and Linear Regression Time Series Algorithms

PunchShot Pickleball
May 2023 – July 2023

- Created a full-stack web application for a local recreation center to allow the organization of local pickleball tournaments
- Utilized React.js, Node.js, Express.js, and a MongoDB database to allow users to create accounts, register for tournaments, find coaching, and compete through leagues and leaderboards
- Employed Stripe API to validate card transactions within the online store for pickleball gear
- Scaled the API to authenticate over 3000 active users within the first three months of launch

SKILLS

- **Programming**: Java, Python, JavaScript, SQL, Dart, Swift, SQL, Node.js, React.js, MaterialUI, Flutter, HTML, CSS
- **Software/Applications**: Git, REST, Google Firebase, MongoDB, Xcode, NumPy, Pandas, Scikit-learn, TensorFlow
- **Languages**: English (native), Gujarati (native), Hindi (native)

EXTRACURRICULAR

BAPS Shri Swaminarayan Mandir
Lilburn, GA

BAPS Youth Leader
September 2018 – Present

- Mentored immigrant children on educational skills and religious virtues through presentations and video calls.
- Facilitated the optimization of space, flow, and logistics of over 10 successful events with an average of 2000+ attendees.
- Organized weekly assemblies while inviting guest speakers and ensuring smooth audio/video operations.