

TUSHAR MISHRA

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EDUCATION

University of Georgia, Athens, GA

GPA: 3.74/4.00

Bachelor of Science, Computer Science, Projected May 2025

Relevant Coursework: Intro to Computing, Software Development, Systems Programming, Data Structures, Intro to Robotics, Intro to Theory of Computing, Software Engineering, Undergraduate Research I, Algorithms, Artificial Intelligence, Human-Computer Interaction

SKILLS

Programming/Scripting Languages: Java, C, Python, C++, HTML, CSS, JavaScript, Flutter, Figma, Kotlin

Frameworks and tools: Bootstrap, Tailwind, React, Node, Angular, Express, Django, Github, APIs, SQL, Microsoft Azure

Libraries: NumPy, Pandas, Matplotlib, Selenium, jQuery, Rospy, JetPack Compose

Certifications: HDI Desktop Advanced Support Technician, React Native by Meta

EXPERIENCE

Undergraduate Research Assistant

LSDIS Lab, University of Georgia, Athens, GA, May 2023 - Present

- Working towards making a Predictive Model, using Transformers and Basic and Graph Neural Networks.
- Using Knowledge Graphs and Semantic Networks to get a deeper understanding of Predictive Models.
- Enhancing the fact-checking capability of ChatGPT by integrating a knowledge graph framework.

Information Technology Support Assistant

CAES, University of Georgia, Athens, GA, January, 2023 - Present

- Provided technical Tier 1 support for UGA College of Agricultural and Environmental Sciences that includes over 1000 faculty, staff and students.
- Facilitate communication between Help Desk personnel and higher tier consultants on complex technical issues, reducing help desk tickets by 25%.

Information Technology Environment Assistant

Georgia State University, Atlanta, GA, September 2022 - December, 2022

- Support for hardware or software installation, configuration, and troubleshooting for the University classes.
- Assembling, Reimaging, Troubleshooting of Computers, printers and Handling, Cleaning and Operating of Media Equipment.
- Direct technology support for students, staff, and professors by resolving almost 40% of all the IT Help desk tickets.

PROJECTS

Investing Yellow – (Fall 2023)

- A website that intertwines AI-driven insights with user-friendly interfaces, offering a personalized financial landscape based on Wells Fargo or Robinhood accounts.
- Using React, TypeScript, and Node.js, it deploys a Lambda function for report management, an Express.js server for Plaid API integration, and a NeonDB PostgreSQL Database for the leaderboard. Its secure and scalable infrastructure on AWS ensures a seamless user experience.

Bookit – (Fall 2023)

- An immersive movie booking system that allows users to look at incoming and current movies in theatres, and book tickets.
- Used React and node.js for website development. Utilized RESTful API architecture to enable seamless communication between the frontend and backend, ensuring a smooth and responsive user experience.
- Leveraged Java Spring's robust framework to manage various backend functionalities, including user authentication, booking processing, and data retrieval from the MySQL database.

Simulate Invest – (Spring 2023)

- A tool to help individual investors or organizations understand and manage the impact of market volatility.
- Used python and its libraries, pandas and numpy to collect data.
- Fetched this data and articles from Yahoo's finance API to process and return relevant information.
- Used Natural Language Processing to classify articles as good or bad by implementing Semantical Analysis and Cosign similarity and used Monte Carlo Simulation to produce stats and predicted graphs for future references.

Weather Today – (Fall 2022)

- A Weather app made on Kotlin on Android Studio, Retrofit library to HTTP API into Kotlin interface. Used JSON API to display weather details. Stored the data via SharedPreferences and preloaded it. Used GSON library to parse JSON into HashMap using TypeToken.

Instagram Bot – (Summer 2023)

- An Instagram that follows random users of the same interest. Made using Selenium and python.

Article.ly – (Fall 2022)

- A native android app, made on Kotlin on Android Studio with JetPack compose. Used Semantical analysis to analyze articles. Used Google Firebase for storing users' info and authentication and Google Cloud Vision API for scanning the articles.