

Scott Schaefer

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

BS in Computer Science, GPA: 3.9/4.0

Aug. 2019 – May 2023

Concentrations: Intelligence and Information Internetworks

Courses: Object Oriented Programming, Data Structures and Algorithms, Objected Oriented Design, Linear Algebra, Calculus I-III, Machine Learning, Computer Hardware and Organization, Database Systems, Computer Systems and Networks, Statistics

EXPERIENCE

Invesco Ltd.

June 2022 – August 2022

Software Developer Intern

Atlanta, GA

- Contributed to a full-stack web application using React.js, Python, and Snowflake
- Developed an easy to use and efficient UI for users to interact with and to visualize data
- Worked alongside a software development team on a project to help improve regulatory reporting
- Gained practical development experience by contributing to ongoing projects with existing codebases and by working with other developers to develop user stories and to troubleshoot client concerns

PROJECTS

General Use Discord Bot | Javascript, Discord.js, Git

June 2022 – Aug 2022

- Built a Discord bot using JS and the Discord.js library
- Allows for users to input commands in server chat that tells the bot to perform certain actions, such as to fetch today's weather, get info about video games, and react to words typed in the server
- Utilized public APIs to fetch third party data and used caching to improve efficiency

Detecting Credit Card Fraud | Python, NumPy, Machine Learning

Jan 2022 - May 2022

- Used machine learning algorithms to detect credit card fraud in a dataset of over 280,000 entries with 99.9% accuracy using Python and NumPy
- Applied algorithms such as KNN, naive Bayes, logistic regression, neural nets, SVM, and random forests
- Utilized techniques such as dimensionality reduction and other methods to clean data to improve on the runtime in possibly expensive algorithms

Rating System Application | Python, Flask, PostgreSQL, SQLite

Aug 2021 – May 2022

- Developed a full-stack web application using Flask, Python, PostgreSQL, and SQLite
- Rated inputs based on datasets and corresponding weight profiles to give suggestions for users
- Backend algorithms implemented with statistical libraries such as skcriteria and NumPy
- Worked in a team of six developers while being mentored by industry professionals
- Utilized an agile development process, including diagramming and intensive sprint planning

Dungeon Crawler Game | Java, Git, JavaFX

Jan 2021 – May 2021

- Designed and implemented a dungeon crawler game with a team of four other developers in Java and JavaFX
- Made creative use of data structures to build algorithms that complemented our design, such as an algorithm to randomly generate chains of rooms for players to interact with
- Implemented a tick-based system to allow for real time user input for movement and attacking

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Matlab

Frameworks: React, Node.js, Flask, JUnit, Bootstrap, JavaFX

Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ, Eclipse, LaTeX, Ubuntu, Yarn, BitBucket

Libraries: pandas, NumPy, Matplotlib, AG Grid, D3.js, Chart.js