ANDREW FITTON

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing   **Atlanta, GA**
Bachelor of Science in Computer Science (Concentration in Info Internetworks and Intelligence)   August 2020 - May 2024
GPA: **3.75**

SKILLS

Languages: Python, JavaScript, Swift, Java, HTML, CSS, TypeScript , SQL, PySpark, C, Go, MATLAB
Tools: Git, Docker, Databricks, Jira, JUnit, Tableau, PowerShell, React, Node.js, Vue.js, Bootstrap, OpenCV, Webpack, Firebase, Linux, Jupyter Notebook, Apache AirFlow, AWS, Kubernetes, Confluence, RabbitMQ, GNU Debugger
Course Knowledge: Data Structures and Algorithms, Object Oriented Programming, Test-Driven Development, Agile Development, Databases, Computer Organization and Programming, Linear Algebra, Computer Networks, Artificial Intelligence, Machine Learning

EXPERIENCE

MANHATTAN ASSOCIATES   **Atlanta, GA**
Software Integration Consultant   June 2024 - Present
- Partner with Manhattan clients to integrate their existing systems with Manhattan's supply chain management services by leading design discussions and engineering data pipelines between client endpoints and Manhattan software
- Implemented 20+ custom flows with Java and XSLT to convert various client data formats (XML, JSON, CSV, flat files) into JSON, enabling seamless integration with Manhattan supply chain management solutions
- Developed Python scripts to automate the generation of test cases and sample data for integration workflows, resulting in a 50% reduction in testing time
- Configured 50+ Java routers to facilitate seamless data exchange between Manhattan APIs and client endpoints, including databases, SFTP ports, and REST APIs
- Wrote SQL scripts to query and update configurations on routers, cross-references, and Google Pub/Sub endpoints according to client specifications, reducing the need for manual configuration

NIKE   **Beaverton, OR**
Software Engineer Intern   June 2023 - August 2023
- Engineered and scheduled PySpark scripts in Databricks to clean 3,000+ data entries from daily delete jobs on user data for expiring Nike online accounts
- Integrated Delta tables from an Amazon S3 data lake with a Tableau dashboard to present statistical insights into Nike's data costs and compliance with data governance policies over time
- Designed a dashboard that optimizes the process for data governance engineers to analyze the performance of scheduled Airflow DAGs on a daily basis, reducing the search time to identify failed DAGs by over 70%
- Collaborated in an Agile team of seven data engineers daily to evaluate project changes and update tickets for biweekly Jira sprints

GEORGIA TECH RESEARCH INSTITUTE   **Atlanta, GA**
Secure Computing Engineer Co-Op   May 2022 - August 2022
- Maintained 48 Linux virtual machines to carry out software testing and replicate a secure cluster of classified servers
- Evaluated the security of Jira tickets prior to system implementation through source code reviews and testing on virtual machines

PROJECTS

Premier League Match Predictor
- Scraped and transformed match data from over 7,000 Premier League games across 20 seasons, engineering valuable features in order to train a machine learning model on the data
- Developed and compared the performance four machine learning models on match data, achieving a prediction accuracy of 58% with the Logistic Regression model
- Created an interactive web application using React that enables users to input upcoming matchups, and integrates a Flask backend to run my Regression model and deliver predictions along with result probabilities
- Leveraged PostgreSQL for efficient data storage and retrieval, enabling rapid feature generation to run the model on user inputs

Peace for Moms Mobile Application
- Developed a mobile application with an Agile team of six developers for Peace for Moms, an organization that assists nurses and front line doctors in Georgia to diagnose mothers facing postpartum depression
- Connected Google Firestore with the React Native client to manage user data and profile functionality for 2,000+ potential users

LEADERSHIP

CHAPTER PRESIDENT   **Atlanta, GA**
Sigma Phi Epsilon – Georgia Alpha Chapter   November 2022 – November 2023
- Spearheaded a new pipeline project involving the executive board to reduce past due invoices by $30,000+, improve chapter GPA by 0.5 points to above campus average, and establish new alumni events to strengthen chapter status as a whole.
- Collaborated across a six member alumni board, eight member executive board, and a 100+ member chapter to set and achieve collective goals across our organization, winning a 2023 Buchanan Cup for being an outstanding chapter
- Directed the recruitment of 36 new members and facilitated the selection process for a $2,500 scholarship with over 100 applicants