

# Abhiram Bharatham

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U.S. Citizen

## EDUCATION

### GEORGIA INSTITUTE OF TECHNOLOGY, *College of Computing*

Atlanta, Georgia

#### Bachelor of Science in Computer Science (Intelligence/Modeling and Simulation)

December 2023

GPA: 4.0

- Minor: IT Management
- Affiliations: Vertically Integrated Project Research, Georgia Tech Capstone Group, Alpha Sigma Phi Fraternity
- Relevant Courses: Computational Modelling Algorithms, Design and Analysis of Algorithms, Combinatorics, Linear Algebra, Data Structures and Algorithms, Machine Learning, Computer Vision, Artificial Intelligence, Automata and Complexity

## SKILLS

**Languages / Frameworks:** Python, C++, React.js, Java, HTML, SQL, PySpark, JavaFx, Agile, REST, Docker, Git, GO, Flask, Django, Apache Airflow, Apache Kafka, Kubernetes

## PROFESSIONAL EXPERIENCE

### Squarespace, *Software Engineering Intern, New York, NY*

June 2022 - Present

- Creating a CRM marketing tool using Flask, React, and GCP to allow direct upload of mailing lists and user information.
- Worked with stakeholders to define and outline a timeline for desirable features and enhancements.
- Optimized SQL queries and used multithreading techniques in Python to speed up CSV file uploads by 150%.
- Used Celery, Redis, and Google Cloud Storage to asynchronously process resource-intensive tasks and prioritize responding to end-users.
- Added Google OAuth using Flask-login for server-side access control and authentication for users.

### Tanium, *Software Engineering Intern, Kirkland, WA*

January 2022 - May 2022

- Designed and implemented the dual-pivot sort algorithm in GO, improving data processing by 220% and reducing memory consumption by 30%.
- Developed a structured and leveled analytics login page in GO for over 400 employees.
- Supported over 150 engineers by automating the Jenkins service to trigger when pushing changes to the mono-repo.
- Built risk APIs for endpoints using protocol buffers and gRPC to improve the scope of data collection by 20%.
- Worked on bug fixes and improved pipelining processes for customers and the UI team.

### Georgia Institute of Technology, *Software Developer, Atlanta, GA*

November 2021 - Present

- Architected a grouping platform for over 5000 users in the capstone program using JavaScript, HTML, and Infinite Blue.
- Implemented backend features in JavaScript for grouping teams and registering team information into an SQL database.
- Designed program of action for upcoming semesters, and handled new-hire training for the 4 new hires.

### AT&T, *Software Engineering Intern, Atlanta, GA*

May 2021-August 2021

- Built a scheduling application using MongoDB, React, and NodeJS, optimizing job scheduling for field technicians by 60%.
- Used Palantir Foundry to clean data and create fusion tables/forms improving the usability and speed of data processing by 40%.
- Created Power BI graphical and visualization solutions depicting critical KPIs for multiple departments.
- Improved visibility for employees by creating a web application using React and Power BI to embed analytics and reports.

## PROJECTS

### *Credit Card Fraud Detection Model:*

- Implemented random forest and decision tree models to identify fraudulent transactions with 94% accuracy.
- Performed data cleaning and PCA for dimensionality optimizations.
- Utilized EC2 Instances, Matplotlib, PCA, Plotly, linear regression analysis, and Tableau for predictive data modeling.

### *B2B Sales Success App:*

- Worked with a local business to build an application that supports the day-to-day workflows of salespeople.
- Built a full-stack application using Flask, HTML, CSS, and JavaScript to automate high-quality high-volume emails to increase the customer hit rate for salespeople.
- Collected data using a python-based web scraper and the Google News and Outreach APIs.
- Created a back-end REST API to fetch get/post requests for client-side rendering to a Firestore database.

