

# PARAG AMBILDHUKE

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## Education

**Bachelor of Science** Georgia Institute of Technology Atlanta, GA, USA 08/2021 - Current

- Major in Computer Science | Spec: Systems and Architecture, Artificial Intelligence | Dean's List Expected Graduation May 2025

## Skills

- **Languages:** Java | Python | C | C++ | JavaScript | TypeScript | HTML | CSS | SQL | GraphQL | x86-64 Assembly
- **Frameworks/ Libraries:** Spring Boot | React | Next.js | Node.js | D3.js | NumPy | Pandas | Matplotlib | Beautiful Soup | PyTorch
- **Developer Tools:** Google Cloud | AWS | Azure | Jira | Postman | Figma | Linux | Unix | Git | Docker | Kubernetes | MongoDB | Elasticsearch
- **Concepts:** Agile Development Process | RESTful APIs | UI/UX Design | Computer Network Design | Database Management | Object-oriented Programming | Cloud Computing | Automata Theory | Tensorflow | Unity | Game Development | Frontend | Backend | Full-Stack

## Experience

**Project Management Intern** College of Computing, Georgia Tech Atlanta, GA, USA 05/2023 - Current

- Developing Java applet for an automatic email response system (800+ users)
- Creating datasheets for Office of the Registrar using **Java, Python, SQL** for 2000+ college courses.
- Designing Smartsheet, Graphs, Google Sheets and Excel templates with **VBA** and Google Apps scripts implemented and using **C, C++, Linux** for scheduling and risk logs.
- Creating standardized Georgia Tech admission and academic major change data and graphs used on Georgia tech websites.

**Computer Vision & NLP Engineer** Georgia Tech VIP Program Atlanta, GA, USA 01/2024 - Current

- Working on Unlocking and Analyzing Historical Texts VIP (Vertically Integrated Projects) team, aiming to unlock and analyze over 5,000 historical texts, and spearheading the creation of an AI tool ecosystem, successfully processing and digitizing over 2,000 historical documents.
- Managing the **scraping and analysis** of data from 200+ archives worldwide using **Python**, developing algorithms for over 3,000 document layouts.
- Implementing OCR (Optical Character Recognition) systems that increase text recognition accuracy by 40% for converting printed texts into machine-readable formats, overcoming challenges in metadata and paratext handling.
- Conducting over 200 qualitative and quantitative evaluations of AI systems, leading to a 30% improvement in accuracy, and managing a catalog of over 1,500 datasets for historical text preservation including Perseus Digital Library.

**Software Engineer Intern** SpartanJewel Atlanta, GA, USA 03/2023 - 12/2023

- Led the design and development of multiple microservice applications at a ECommerce jewelry store startup, worked on order fulfillment features and Implemented enterprise applications and designed the frontend using **React, JavaScript, and Tailwind CSS** and structuring the backend using **Node.js and Express.js** to handle various server-side operations efficiently.
- Reduced the validation testing time of products by 70% for better user experience of the commerce platform's cancel, return, and exchange systems (PC/Mobile).
- Led the development of several products E2E experience of the commerce platform's cancel, return, and exchange systems (PC/Mobile).

**Technology Support Assistant** Georgia State University Atlanta, GA, USA 09/2022 - 01/2023

- Installed and deployed software packages on multiple PCs using chocolatey via PowerShell, Linux, C++.
- Analyzed and maintained classroom systems, and installed applications including audio-visual projection, classroom recordings, data links, and networking in over 50 classrooms using Assembly Language.
- Managed multiple servers and diagnosed network related issues to maintain a stable networking environment for students and staff.

**Coding & Math Class Instructor** Early College Summer Program at Georgia State University Atlanta, GA, USA 06/2022 - 07/2022

- Instructed high school seniors in using HTML and CSS, and assisted students in coding an interactive website of a restaurant. Instructed students in Functions, Probability, Logic and Basic Combinatorics instructing 3 classes with over 25 students each for a cumulative of 15 lectures per week.
- Assigned and edited assignments on MyLab Math Pearson, made PowerPoint slides for each chapter, and managed the class on the university's course managing software iCollege.Early College Summer Program, GSU

## Projects

**Investing Yellow** | React, Node.js, TypeScript, AWS, Tailwind CSS, Plaid; [investingyellow.com](http://investingyellow.com) [devpost.com/software/investingyellow](https://devpost.com/software/investingyellow)

- Collaborated with three teammates to build a software that revolutionizes personal finance management by intertwining AI-driven insights with user-friendly interfaces and a robust infrastructure on AWS for scalability utilizing Route 53 for domain management.
- Integrated Plaid API for smooth transactions and balance checks and used Node.js, Express.js on AWS for secure backend operations.

**PLATFORMER GAME** | JavaScript, HTML, CSS [github.com/gtparag/Platformer-Jump-Game](https://github.com/gtparag/Platformer-Jump-Game)

- Created a 2D desktop navigating jump game in JavaScript where a player can navigate through platforms. Link to [Gameplay \(07/2020\)](#)

**Dungeon Royale** | Java, Android Studio, Git

- Engaged with five teammates while working in multiple sprints to build an android dungeon game application in Java, where the player navigates through dungeon rooms and can attack and destroy enemies with features like weapons, health, power ups and leaderboard.

**Pacman AI:** Trained a value iteration and Q-learning model eventually training a neural network using *Python* with Pacman agents to find paths through the maze world, both to reach a particular location and to collect food efficiently. (March 2023)