PARAG AMBILDHUKE

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Education

Bachelor of Science	Georgia Institute of Technology	Atlanta, GA, USA	08/2021 - Current
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Major: Computer Science | 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 | PyTorch
- Developer Tools: Azure | Google Cloud | AWS | FPGA | SystemVerilog | Linux | Unix | Git | Docker | Kubernetes | MongoDB
- Concepts: RESTful APIs | UI/UX Design | Computer Network Design | Database Management | Cloud Computing | Backend

Experience

Microsoft Software Engineer Intern Redmond, WA, USA 05/2024 - 08/2024

 Created cloud network packet PCAP file stats collection pipeline and an API orchestration layer from scratch. Integrated it into existing network packet capture pipeline, including performance testing; used C++, C#, JavaScript, KQL, Azure.

- Developed an end to end pipeline as part of Azure's Hyperscale Physical Networking Team to automate packet loss data, reducing DRI investigation time for router packet loss by over 90%; used UDP socket API, Kusto, Azure Storage.
- Created KQL gueries for router packet stats collection and analysis using the new pipeline and integrated it into frontend of Everfow UI, reducing data analysis time by 40%; used KQL, C#, D3.js, HTML, CSS.
- Integrated the new stats pipeline to generate pending and lost PCAP files reducing the false positives of service by 100%.

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texts, and spearheading the creation of an AI tool ecosystem, successfully processing and digitizing over 2,000 historical documents.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. Repo: https://github.com/VIP-TopicModeling/Topic-Modeling-VIP-EEBO-TCP-Collections-Navigations
- 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.

Software Engineer Intern **SpartanJewel** Atlanta, GA, USA 3/2023 - 12/2023

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

College Advising Project Manager 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 SQL, Python, Linux for scheduling and risk logs.

Projects

Investing Yellow | React, Node.js, TypeScript, AWS, Taliwand CSS, Plaid;

 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. Details on: devpost.com/software/investingyellow

PLATFORMER GAME | JavaScript, HTML, CSS

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)

In-text Emotion detection using NLP: Used deep learning techniques like LSTM, BERT, SVM, Naive Bayes for a more nuanced understanding of emotional context in text using 6 fundamental human emotions: sadness(0), joy(1), love(2), anger(3), fear(4), and surprise(5). Project Website: Emotion-classification

investingyellow.com