Disha Aravind

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Education

MS in Computer Science, **Georgia Institute of Technology** (GPA 4.0/4.0)   Expected – Dec 2023

- Modelling Social Media behavior to understand COVID-19 testing hesitance under the advisement of Dr. Michael L. Best at the Technologies and International Development Lab
- Collaborating with Dr. Santosh Vempala on textbook Techniques in Optimization and Sampling
- Teaching Assistant for Continuous Algorithms: Optimization and Sampling

B. Tech in Computer Science, **PES University** (CGPA 9.09/10)   Aug 2016 – May 2020

- Specialization in Algorithms and Computing Models
- Team Aeolus: Incorporated Human Detection and Gesture Recognition for IARC

Skills

- Programming languages: C++, C, Java, Python, C#, JavaScript, TypeScript, ReactJS, NodeJS
- Databases: MySQL, PostgreSQL , Kusto Query Language, MongoDB
- Web Development: REST API, Flask, PHP, HTML, CSS
- Cloud Computing Technologies: Docker, Amazon Web Services (AWS), Azure

Experience

Software Development Engineer, **Microsoft**   Jul 2020 – Aug 2022

Tech Stack: C++, SQL, TypeScript, JavaScript, ReactJS, C#, Python, Azure, Postman, Kusto

Autofill from Outlook   2021-2022

- Implemented a feature to fill Flight data from Outlook mails and designed telemetry for ~4K monthly users

Custom Fields Autofill   2020-2021

- Built a feature to fill user-curated data with ease - Increased Click through Ratio by 25%
- Led the development of the feature, mitigated sample ratio mismatch errors, and expedited experimentation
- Increased user adoption by 18.8K users, engaged 12.3K users and 116% increment in coverage

Web-Assist   2020-2021

- Created Date of Birth Field - Auto-filled by users in 28% of Edge suggestions
- Added Data-List view - used in 9% of all web pages, 4% of all page loads in Edge
- Refactored Autofill Data-storage to decrease sync conflicts by 94% for 38M active clients
- Diagnosed and resolved low precision in Autofill from Clipboard suggestions – increased by 15.5%

One Customer Voice Feedback   2020-2022

- Performance Team - Coached Edge teams on measuring performance, decreased autofill memory footprint by 24%
- Edge Telemetry Team - Reviewed over 150 Telemetry PRs and devised novel telemetry
- Sheriff for Edge-Chromium Pump - Piloted the merge of ~9000 upstream Chromium Git commits into downstream
- Reviewed and improved accessibility of Edge features in the Accessibility team and solved long-time accessibility bugs impacting over 50k users over 6 stable releases

Software Development Intern, **Microsoft**   Jan 2020 – Jul 2020

Tech Stack: C++, Python, TypeScript, JavaScript, ReactJS, Azure, Postman, REST, PHP, HTML, CSS, Flask

Assignment Helper   2020

- Developed a Python Flask server and RESTful API to suggest assignment outlines for students using Bing data, NLP, and Conditional Random Fields ML model
- Conducted interviews for user studies with over 15 students to assimilate the project into Edge Collections

Closed Caption Generator   2019

- Built a live caption generator for all videos in Edge using Azure Cognitive Services
- Worked on the internals of Chromium's audio buffers and Pepper API to remove lag in live captioning

Research Work

Propaganda in Trending Twitter Topics in India – A Metric Driven Approach, **IEMIS Springer**, 2021

- Social Media Bias detection using Language Processing on Twitter political discussions to detect propaganda

Online Community Study   2022

- Studied the role of exclusivity and barriers to entry in establishing trust in high-stakes social interactions

Python Education Tool   2022

- Created a Prototype for a website to learn debugging and coding in Python with a focus on Algorithms and Efficiency

Dance Generator   2016

- Experimented with GANs and Neural Nets to input Bharatnatyam videos and generate dance steps