Chandana NT

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Education

Georgia Institute of Technology — *Atlanta, GA*

Master's Degree, Computer Science | GPA 3.75/4 — *Aug 2021 - Dec 2022 (Expected)*

National Institute of Technology Karnataka (NITK) — *Surathkal, India*

Bachelor's Degree, Computer Science | GPA 8.94/10 — *2014 - 2018*

Experience

Microsoft | Software Engineer — *Hyderabad, India*

Edge Browser — *Jun 2018 - Jul 2021*

- Worked on the Translate feature in Edge. The feature has about 20 million daily active users.
- Built dashboards to monitor important health and success metrics for different features within the Edge browser.
- Built infrastructure to measure and compare the performance of different content extraction algorithms that are used to identify informative parts of a web page.
- Developed a tagging tool that could be used to label elements of a web page as useful content (title, byline, main body) or noise (Ads, header, footer, navigation menu). The tool was used to build a high quality labelled dataset.

Microsoft | Software Engineer Intern — *Hyderabad, India*

Edge Browser — *May 2017 - Jun 2017*

- Worked on Read Aloud and Text Spacing to enhance reading experiences within the browser.
- The features were shipped in the April 2018 Windows update.

Unnati Data Labs | Data Science Intern — *Bengaluru, India*

Music generation using machine learning — *Jun 2016 - Jul 2016*

- Worked on an open source project to generate music using the LSTM flavour of Recurrent Neural Networks.
- The project was presented at PyCon India 2016, New Delhi.

Skills

Worked with	Data structures, Algorithms, Microservices, A/B Testing, UI/UX, Browser extensions, Machine Learning
Languages	Proficient : C++ | Prior Experience : Javascript, Python, C#
Tools/Technologies	git, .NET, selenium, SQL, Azure DevOps, React, Redux, Figma

Projects

Dialect Detection

- Developed a model that used spectral and prosodic features to classify audio samples into 5 different dialects of Kannada. Also, studied the impact of the length of the utterance on the performance of the model.
- Published a paper Automatic Text-Independent Kannada Dialect Identification System in the **Springer AISC series, vol 863 (Best Paper Award).**

Strongly Connected Components in large graphs

- Implemented serial and parallel versions of the Hong Algorithm to find Strongly Connected Components(SCCs) in directed graphs.
- The algorithm exploits properties of real world graphs like the power law distribution of SCCs to speed up the process.

Unikernels

- Wrote sample programs to generate Rump Kernels and Capstan Unikernels. Understood the working of unikernels, their pros and cons and analyzed potential use cases.
- Did a comparative study of unikernels with respect to containers and Virtual Machines.

Automated Multi-Level Parking System

- Built simulations for a multi-level parking system using synchronous counters.
- The system continuously kept track of the number of cars at each level and computed the nearest level (from the entrance) with an empty parking spot.

Additional Experience

- Social Events & CS group coordinator at ACM NITK Chapter (2016-18).
- Volunteered to teach English and CS basics to students of a Kannada medium school during my undergrad.