Basavaprasad Gola

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EDUCATION

University of Texas at Arlington — **Arlington**
Masters of Science in Computer Science and Engineering — *May 2023*

Dayananda Sagar College of Engineering — **Bengaluru**
Bachelors of Engineering in Electronics Engineering — *Aug 2020*

SKILLS

Majors: Data Analysis, Machine learning, Web development, Software Engineering, Networks, Databases Design
Frameworks & Tools:, microprocessor architecture, HDL languages, simulation tools, Perl, Python, Unix Shell scripting, x86 or ARM assembly language, IP design or verification
Languages: Python, Javascript, C, HTML, CSS, ZSH, Bash, Kotlin

EXPERIENCE

JV Technologies LTD — **Bengaluru**
Software developer Intern — *Jan - Aug 2020*

- Developed a client-server model for an intranet, a full-stack web application for monitoring the workforce.
- Implemented MVC model using Django in python. Implemented authentication, authorization in Javascript. Configured MySQL for storage.

PROJECTS

Emotion Detection software (FRS)[Github] — **Arlington**
Augmented Reality (AR) — *Dec 2022*

- Implemented facial detection + emotion recognition from video webcam. Used classification models from TensorFlow library.
- Used ReactJS framework for front-end; Keras library to create mesh on the face; Tensorflow library for image recognition model; Flask framework for back-end; Works with the webcam on a compatible browser(Chrome, Firefox), with required drivers and bundles to function.

Vector Clock[Github] — **Arlington**
Remote procedure call (RPC) — *Jun 2022*

- Implemented event handling using data structure used for determining the partial ordering of events in a distributed system and detecting causality violations at the processor and thread levels. Used to run a single application over numerous remote servers.
- Used thread library to create threads in each processor period; Socket library for server binding between Application layer and Transportation layer of OSI model; Client and Server models where several clients request on a single server.

Instagram Bot[Github] — **Arlington**
Automation — *May 2022*

- Built bot to query number of people not following back on Instagram using Selenium for Google Chrome in Python. Developed a personal project to get hands-on with selenium. Implement validation and testing on web applications in further projects across different browsers and platforms.

Simon Game[Github] — **Arlington**
Web Application — *Aug 2022*

- Created a game application where the player has to remember all the order of light at the end.
- Implemented a hardware game in software using Javascript; Used HTML, CSS for front-end.

Todo List[Github] — **Bengaluru**
Front-end Application — *May 2021*

- Developed and implemented a front-end page to support user interface with the basic CRUD principle.
- Increased performance by using ReactJS to implement hot reloading of simple to-do lists for daily task management.