Sravani Garapati

Software Engineer **Contact**

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Skills

Programming Languages: Proficient in C++, Python, Javascript, Erlang, C and Java. Familiarity with Go Android App Dev: Experience in building Android applications using Android Studio, Java, Python, JavaScript Debugging: Adept at identifying and debugging bugs and

Web-Applications: Hands-on experience in building software applications in Django-Python, JavaScript,

HTML5, CSS3

Platforms: Node.js, Azure

resolving technical issues

Databases: Proficient in MySQL, PostgreSQL, MongoDB **Agile Development:** Certified in SAFE Agile Practices **Others: Git and GitHub, Bitbucket, Confluence, Slack, Jira**

Projects

LL(1) Parser and Lexical Analyzer - Compiler Construction

Created from scratch a DFA-based Lexical Analyzer that recognizes some of the basic lexemes and implemented LL(1) parser to parse the lexemes generated by a Lexical Analyzer.

Our Algorithm Traverses and generates the parse tree or the sequence of tokens from the stack.

The final program reads a string of lexemes and validates the string by using Parse Table and implementing a stack to perform the Shift Reduce Transitions on states.

Deep Learning for Time Series Analysis

A **subsampling** technique was used to extract landmarks and identify the recurring pattern in ECG by assuming zero noise. Used**Switching Autoregressive HMM** method was used to partition the ECG time series in which each datapoint (xt) is predicted from the previous datapoint (xt+1) using a **Bayesian Regression model**. Finally implemented six models, namely:

- LSTM
- Bidirectional LSTM
- Dropout with Bidirectional LSTM
- · Stacked Multi Bidirectional LSTM
- Bidirectional LSTM with Multihead Attention
- Transformers and Multihead Attention

and compared their performance as well to work without noise cancellation, obviating the need for smoothing and saving information loss.

Education

(Aug 2018 - July 2022)

Bachelors in Engineering

Birla Institute of Technology and Sciences, Pilani

Graduated in B.E. Computer Science & Engineering

Profile

- Highly motivated and skilled software engineer with over 1 year of professional experience seeking a challenging position to contribute to the development of innovative software solutions
- Proficient in Django REST Frameworks, C++, Python, JavaScript, Erlang, SQL & web development
- Well-versed with the Software Development Lifecycle (SDLC) right from requirement analysis, documentation coding and testing to maintenance of proposed applications
- Excellent Knowledge of software engineering principles and best practices
- Effective in developing solutions for given technical specifications; installing application software and deploying customizations; contributing to code reviews
- Successfully contributed to the design & development of various software projects
- Possess exceptional communication, analytical and problem-solving skills to work in a multi-cultural environment along with team management

Core Competencies

- Backend Development
- Android App Development
- Data Structures and Algorithms
- Object Oriented Programming(JAVA)
- Automation Testing
- Web-Application Development
- · Unit Testing and Code Coverage

Work Experience

July 2022 - May 2023

GreyOrange Pte. Ltd. (Software Developer Engineer)

Worked in the core team of GreyOrange that handles the movement of robots in the warehouse. The complete Microservice-based operating system handles charging, safety, task assignment, and navigation of robots for pick-up and drop operations in the warehouse

Key Result Areas:

- Developed a Multiple Server-Client Application that can accommodate multiple users (>50) in Javascript, Expressjs and WebSockets on the NodeJs platform
- Implemented Bidirectional communication protocol and handled multiple user messages using WebSockets
- Contributed and worked on maintaining the Robotics Warehouse Automation Model to Automate the Audit Process on the Inventory Transactions run on the Inventory using the Bot-Server Model
- Resolved around (>20) Bugs in the system, raised while processing Inventory Transactions to amend the code and workflow
- Coded for 25% of the Automation Test Cases in Pytest for Automating the UI Dashboard Operations
- Deployed EUnit Test Cases and Common Tests in Erlang/OTP to ensure functionality and provide a means of verification for refactoring efforts, hence increasing the Code Coverage by 20% to support the implementation and automated execution of the AUDIT Flow
- Tech Stack: JavaScript, NodeJS, Expressjs, Erlang, Pytest, Python, Postgres, MySQL, Mnesia

June - Dec 2021

Licious Delightful Gourmet Pvt. Ltd

(Software Developer Intern)

- Worked with product and design teams to own the end-to-end features, including designing the architecture, data storage, and API integrations.
- Developed Headless CMS to manage the Banners and Campaigns, built using Model Forms and implemented CRUD Operations and Role Based Access Control using Django-Python Framework, and designed UI from scratch using Django HTML templates enabling Scripting and HTML5.
- Tech Stack: Django, Python, Docker, MySQL