



Tensae Berhan

Bio:

Tensae is a dedicated software developer with over 5years of experience in the field.

Her background includes Application Development, Data Analysis, Natural Language processing and supplementary coding. She is eloquent in different programming languages such as Java, Python and Scheme with some exposure to Chabots and associated languages such as ChatScript and AIML (Artificial Intelligence Markup Language).

She holds certificates to several useful courses including Text Mining and Machine Learning from Stanford University.

In her time as senior programmer at ICog Labs, an Artificial Intelligence R&D company, she has contributed to popular frameworks such as the OpenCog Artificial General Intelligence framework – A collaborative project focused on implementing the different parts of the human brain and SingularityNet - a platform for Artificial Intelligence service monetization.

When she's not on the job, Tensae participates in community service with fellow members of the Rotaract club of Kerroge. She is also enjoys Art Exhibitions, Yoga and Hiking.

EDUCATION:

Bachelor of Science in Electrical & Computer Engineering from Addis Ababa Institute of Technology, July 2016

TRAININGS:

Gebeya Inc.: Mobile Application Development
CISCO at Techno brain / New Horizon Addis Ababa, Ethiopia
Haskell with IOHK

CERTIFIED IN COURSES:

Introduction to Computer Science (By Harvard University / CS50)
Machine Learning (By Stanford University)
Introduction to Text Mining
Introduction to Python (By University of Michigan)



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TECHNICAL SKILLS:

Domains	Data Analysis, Finance, Education, Research, NLP
RDBMS & SQL Databases	SQLite, Postgres
DevOps	Docker, Git, Atlassian Bitbucket
Applications	Native Android, Web, Desktop Applications
Operating Systems	Windows, Ubuntu LINUX, MacOS
Web Services & API	Postman, REST API, Flask
Programming Languages	Python, C++, C, Java, SQL, JavaScript, Scheme, Haskell, Scala, Chatscript
Machine Learning Framework	TensorFlow, Keras, PyTorch
Test Management Tools	CxxTest, Junit, JIRA
Data Analysis Tools	Google Analytics, Firebase, BigQuery
Documentation Tools	Wiki, Jupyter Notebook

PROFESSIONAL EXPERIENCE:

IOHK – Software Developer ~ As of May 2019

ICog labs - Senior Programmer, Open Cog AGI ~ August 2016 - April 2019

Intern / ICog labs – Junior Programmer ~ Mar 2015 - Jan 2016

Freelance Android Application Developer ~ As of June 2017

SELECT PROJECTS

Project Name: CODA

Description: Consumer Data Analytics is a project to analyze and investigate data collected on the activity of the users while using a specific website or an App, in order to improve the application towards users' preferences - with complete respect to users' privacy.

Role: Developer, Assistant Manager

Responsibilities: Create both mobile and web applications, link required elements to firebase and Google Analytics to track users' activities, use the data collected to do path and funnel analysis, create custom dashboards and link to third party applications based on analysis needs.

Environment and Tools: Android Studio, Wordpress, Firebase, Google Analytics, BigQuery

Project Name: Corto

Description: A chat based movie data analysis platform on data collected from IMDB pages to give text and visual responses of the interconnection between different participants of the movie industry.

Role: Developer



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Responsibilities: Process collected data, implement analysis code using pattern matching modules, write and implement ghost chat rules, prepare data format for visualization modules.

Environment and Tools: Ghost chat and pattern matching engines in OpenCog, Scheme, Ubuntu

Project Name: Election Analysis

Description: Desktop and CLI Application to analyze data in provided in an Excel format to summarize and visualize based on regularity, vote percentage, participation

Role: Main/Only Developer

Responsibilities: UI design and implementation, data processing and output calculation

Environment and Tools: Windows & Ubuntu, IntelliJ, JavaFX, Launch4J

Project Name: Build-Direct, Question Answering System(QA)

Description: A customer support chat engine for the build direct furniture company that learns product information from their website, blog and chat data and produces response to questions from users using Conditional Random Field implementation and Natural Language Processing modules.

Role: Developer

Responsibilities: Preprocessing, Indexing, Text Summarization

Environment and Tools: Python, Apache Lucene, OpenNLP

Project Name: Teaching Tablet

Description: An Android Application designed to teach children the basics of English and Mathematics with the help of an animated Avatar and adjust the curriculum based on the analysis of the data collected from the child.

Role: Junior Developer

Responsibilities: Create Android Application with integrated Speech to text, Text to speech and Chatbot capabilities

Environment and Tools: Pandorabots for AIML, PocketSphinx and Festival, Android Studio

Project Name: Equib

Description: An Android Application for a regional money saving system where users form pools, make periodic payments and take the collection in rounds. The app keeps track of payment durations, sends notifications and announces winners for each round.

Role: Android Developer

Responsibilities: Make Android Application based on the UI design, MVC architecture with internal database and connect to back-end via API

Environment and Tools: Android Studio, ORMLite, Postman



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Project Name: Image based road assistance for the visually impaired

Description: A project to create a system that can analyze distance from video feed and assist the visually impaired in crossing the street.

Roles: Developer

Responsibilities: Hardware setup, Stereo camera calibration for depth calculation and python coding

Environment and Tools: OpenCV, Python, Ubuntu, RaspberryPi

References available upon request

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