

SINDHURA BAGODU RAMACHANDRA

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SUMMARY

Software developer with 5 years' experience of working on Enterprise software solutions, seeking full time SDE opportunities.

TECHNICAL SKILLS

- Languages: Python, C, C++, Java, JavaScript, Objective C, Swift, .Net
- Web Development: Django, React, NextJS, Node.js, Express, HTML 5, CSS, Bootstrap
- Tools and DB: Git, Maven, CMake, Jira, Confluence, Bamboo, Pandas, Numpy, Keras, Tensor Flow, OpenCV, MySQL, Visual Studio
- Technology: TCP, UDP, TLS, VoIP, MTCTI, SIP, REST, XMPP, WebRTC

EXPERIENCE

USC ANNENBERG SCHOOL FOR COMMUNICATION AND JOURNALISM, Research Assistant

May 2022-May 2023

- Developed Iclusionlist.org using **Next.js** for frontend and **Directus CMS** for backend. Website showcases research from Annenberg Inclusion Initiative, and features how gender and racial representation of nominees and winners has evolved over time.
- Designed a user-friendly web portal as an alternative to manual data entry using **React, Python-Django, MySQL** for storing Movie details, search among 500 plus movies and update database based on user input. Deployed application on **AWS**.

AVAYA INDIA PVT LTD, Software Engineer I

Jun 2017-Nov 2021

- Integrated an SDK tool that aids interaction between Unified Communication software and IP Office (Avaya's Communication server). Resolved 50 plus high priority bugs, stabilizing, and enhancing the product. Trained new team members on tools and configurations used by the product.
- Implemented resiliency feature for a communication software to interact efficiently with **Distributed Network System**. This reduced application downtime to 1-2 seconds ensuring fault tolerance and data redundancy.
- Engineered multiple features such as Single Sign On with **OAuth 2.0, Apple Push Notification**, server-based call logging and telephony features such as Conferencing over **VoIP** and took complete ownership of delivery contributing to 7 major releases of product. Drove number of agile product development life cycles by collaborating with team across geographies
- Created a framework for unit testing using Google Test automation framework and wrote automated test cases enabling early detection of conflicts and failures. Also reduced QA testing turn-around time by 80%.
- Developed 30 plus APIs for third party developers providing seamless access to core product functionality over SIP, REST and MTCTI protocols.

AVAYA INDIA PVT LTD, Technical Associate

Jul 2016-Jun 2017

- Worked on UI enhancements in Swift for a softphone application deployed on Avaya's proprietary PBX over WebRTC media engine. Configured and tested Avaya's IP phones on various on-premises and cloud deployments.
- Managed manual and automation testing of Unified Communication software – Equinox on different PBX solutions of Avaya for 6 months, excelled in troubleshooting network communications over on-premise and virtualized servers

EDUCATION

University of Southern California

Los Angeles, CA

Master of Science in Computer Science | GPA – 3.85/4

Jan 2022-July 2023

Coursework: Analysis of Algorithm, Artificial Intelligence, Database Systems, Machine Learning, Web Tech, Natural Language Processing

Sri Jayachamarajendra College of Engineering

Mysore, India

Bachelor of Engineering in Computer Science | GPA – 9.05/10

Aug 2012-May 2016

Coursework: Algorithms and Data Structure, Operating Systems, Cloud Computing, Software Engineering, Computer Networking

ACADEMIC PROJECTS

Reverse Dictionary

Feb 2023-Apr 2023

- Built a ML model that identifies a word based on possibly vague descriptions using various transformer-based deep learning architectures including BERT-LSTM, BART and Pegasus achieving 73% performance accuracy.

GO game based on Alpha-Beta pruning optimization

Feb 2022-Mar 2022

- Built an AI agent in **Python** to play GO game leveraging alpha-beta pruning technique on Minmax algorithm and Reinforcement learning. Agent predicts the next 10 moves of the opponent before making its move. Achieved 92% performance efficiency.

Urbanity

Jun 2021-Sep 2021

- An end-to-end E-commerce website in **Django** done as a learning purpose project that facilitates product search, product reviews, checkout, two factor authentication through Twilio API and **PayPal** payment integration. Hosted the application on AWS Elastic beanstalk and Heroku cloud platforms.