SINDHURA BAGODU RAMACHANDRA

Los Angeles, CA | (213) 675-2107 | bagodura@usc.edu | LinkedIn | GitHub

EDUCATION

University of Southern California   **Los Angeles, CA**
Master of Science in Computer Science | GPA – 3.5/4   **Jan 2022-Dec 2023**
Coursework**:** Analysis of Algorithms, Artificial Intelligence, Database Systems, Machine Learning

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

TECHNICAL SKILLS

- Languages: Python, C, C++, JavaScript, Objective C, Swift, .Net
- Web Development: Django, jQuery, JavaScript, PHP, SQL, HTML 5, CSS, Bootstrap, React JS
- 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-Present**
- Designed a user-friendly web portal as an alternative to manual data entry in **Python-Django, REACT and MySQL** for storing Movie details, search among 500 plus movies and update database based on user input. Deployed application on **AWS**.
- Responsible for creating a **Chrome extension in JavaScript** to download information about Movies from Variety Insight website.

AVAYA INDIA PVT LTD, Software Engineer I   **Jun 2017-Nov 2021**
- Integrated a Desktop and Mobile application that provides Unified Communication features with IP Office (Avaya's Communication server). Resolved 50 plus high priority bugs, stabilizing, and enhancing 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 the 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**. 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 over WebSocket.

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.

ACADEMIC PROJECTS

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 next 10 moves of opponent before making its move and 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.

Negative comment classification from social media   **Jan 2021-Mar 2021**
- An ML model to classify social media comments into five different categories based on negativity like threat, insults, hate-speeches, cross-validated by Logistic Regression, LinearSVC. **WordNetLemmatizer** was used for lemmatization and **TfidfVectorizer** for vectoring data. Achieved an average accuracy of 96% for all categories of comments.

LEADERSHIP AND INVOLVEMENT

- Volunteered for Avaya Rocker's Club, organizing technical events and team activities such as Food festival, charity work for students.
- Volunteered for **Linux Campus Club** in SJCE, Participated in technical fest. Also, contributed to creative committee of the club by involving in paintings and artistic models.