

# SINDHURA BAGODU RAMACHANDRA

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## SUMMARY

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

## TECHNICAL SKILLS

- Languages and Framework: Python, C++, Java, JavaScript, Objective C, .Net, Django, Flask, React.JS, Next.JS, Node.JS, Express.JS
- Technology: TCP, UDP, TLS, VoIP, SIP, REST, XMPP, WebRTC

## EXPERIENCE

### AMAZON

May 2023-Aug 2023

#### Software Dev Engineer Intern

Austin, Texas

- Developed a **Java**-based functionality to delete Sample EBooks from all the user devices upon full book purchase for Kindle Content Delivery Experience team. Included comprehensive unit and integration tests to ensure feature robustness and incorporated metrics to gauge customer engagement. Accountable for overseeing the feature's deployment onto the Production environment.
- Implemented a Proof-of-Concept for the Kindle Reader **Android** application, evaluating the viability of real-time EBook streaming on mobile devices to optimize storage efficiency as an alternative to full EBook downloads. Orchestrated the end-to-end design of the feature, assessing the metrics to guarantee a seamless customer experience and prevent any potential regressions.

### USC ANNENBERG SCHOOL FOR COMMUNICATION AND JOURNALISM

May 2022-May 2023

#### Research Assistant

Los Angeles, California

- Developed a website using **Next.js** and **Directus CMS** to showcase research on gender and racial representation in Oscar awards. Hosted it on **AWS**. [link](#)
- Designed a user-friendly movie web portal with **React**, **Python-Django**, and **MySQL** for automated data management.

### AVAYA

Jun 2017-Nov 2021

#### Software Engineer I

Bangalore, India

- Integrated an SDK tool to facilitate interaction between Unified Communication software and server, resolving high priority bugs. Created 30+ APIs for seamless access to core product functionality for third-party developers.
- Implemented a resiliency feature for efficient interaction with the **Distributed Network System**, resulting in application downtime reduction to 1-2 seconds and ensuring fault tolerance and data redundancy.
- Engineered multiple features, including Single Sign On with OAuth 2.0, Apple Push Notification, server-based VoIP call logging, and other telephony features. Led agile product development cycles, contributing to 7 major product releases.
- Developed a unit testing framework using Google Test automation and automated test cases, resulting in early detection of conflicts and failures and an 80% reduction in QA testing time.

### AVAYA

Jul 2016-Jun 2017

#### Technical Associate

Bangalore, India

- Worked on UI enhancements in Swift for a softphone application deployed on Avaya's proprietary PBX using WebRTC media engine.
- Managed manual and automation testing of Unified Communication software on different PBX solutions, excelling in troubleshooting network communications over on-premises and virtualized servers.

## EDUCATION

### University of Southern California

Jan 2022-Dec 2023

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

Los Angeles, CA

### Sri Jayachamarajendra College of Engineering

Aug 2012-May 2016

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

Mysore, India

## ACADEMIC PROJECTS

### Event Finder | *React.js, Node.js, Kotlin*

Feb 2023-Apr 2023

- Developed a Web and Android application to streamline event discovery and ticket booking, leveraging the Ticketmaster API. Users can search for events based on location or utilize their current location, specifying event types to suit their preferences. [link](#)

### GO game based on Alpha-Beta pruning optimization | *Python*

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 | *Python, Django, JavaScript, AWS*

Jun 2021-Sep 2021

- An end-to-end E-commerce website in Django 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.