

# ATHIRA SABU

## Software Engineer

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Thrissur, India



## PROJECT EXPERIENCE

### Software Engineer

#### Twilio

📅 Ongoing

📍 Bangalore India

- Working on Organization Api integration to Twilio helper libraries
- Worked on implementing an Open API generator which reads the open API specs and generate client libraries in multiple languages for simplified use of the Twilio communication API with assistance of helper functions
- Implemented support for sending and receiving JSON requests/responses in Go helper libraries for Twilio REST APIs
- Migrated Twilio helper libraries in multiple languages(Java, C#, PHP, Ruby) to be generated from open API Specs which is a commonly accepted standard, using Open API generator instead of initial way of generating from API definitions which was Twilio specific
- Worked on Twilio command line interface tool where all Twilio APIs can be accessed and operations can be performed from the command line
- Actively worked on customer issues across helper libraries and Twilio CLI resolving all queries posted in forums and github issues
- Implemented github workflows to release the Twilio CLI product's release candidates and implemented test suites for integration testing and unit testing of auto generated libraries using Open API generator
- Actively involved in addressing and resolving customer issues in multiple products handled by the team. Setup mono repos for code scanning and quality analysis using Sonar

### Project Leader

#### Oracle India Development Centre

📅 June 2017 – March 2022

📍 Trivandrum, India

- Received Silver Spot Award from Oracle as recognition
- Extensively worked on projects on Intelligent Bots on Oracle Cloud Enterprise - Oracle Digital Assistants and Instant Apps for Oracle Bots
- Worked on complete product development cycle starting feature reviews, complete development, code reviews, testing, bug fixes, customer delivery, assessment of enhancement requests etc
- Mentoring the complete development team(having experience 0-11 years) working on Digital Assistant Project for past couple of years. Following Agile methodology, working actively in scrum management activities including sprint planning and management activities. Worked with Fusion Financials Technology Team on feature development, bug fixes and enhancements
- Worked with test automation frameworks including JUnits for Restful Services and OATS library for REST services. Handling test automation for Oracle Digital Assistants - ChatBots. Experience working with REST APIs and Docker

### Intern

#### QBurst Technologies

📅 June 2016 – August 2016

📍 Thrissur, India

- Developed iOS Applications in swift
- Worked with bluetooth beacons technology and developed applications for tracking testing devices within the company

## CERTIFICATIONS



Oracle Certified Associate - Cloud Infrastructure Foundations 2020 CA



Scrum Certification for Developers - Agile Software Development by Lynda

## PROJECTS

### Oracle Digital Assistants

[Oracle Intelligent Bots for Expenses]

- Lead and Main developer of Oracle Digital Assistant Project for Expenses - Worked on implementing major features in Intelligent Bots on Oracle Cloud Enterprise
- Implemented business logic to access Oracle Expense Cloud from the chatbot UI and perform actions like creating, modifying an expense, creating, submitting and viewing status of expense reports, Approving/Rejecting expenses for manager/auditor roles etc
- Worked on Channel integration for ChatBots including Facebook Messenger, Whatsapp, and Webhooks
- Built Instant Apps for Oracle ChatBots
- Worked on test automations for ChatBots (Integration testing and Conversational testing)
- Monitoring all certification activities for product releases

### Oracle Expenses

[End-to-end solution for digital expense management]

- Oracle Expense Cloud is a complete, end-to-end solution for digital expense management.
- It gives employees easy data entry options, and financial managers detailed spend information and policy-driven control while offering the flexibility to cater to a global user base.
- Worked on adding new options for customization and configurations at user end

### Twilio Open API Generator

[Tool that auto generates Twilio helper libraries in multiple languages]

- Main developer in Open API Migration initiative of Twilio
- The Helper libraries were generated in multiple languages using yoyodyne taking API definitions as input. API Definitions are specification and details of Twilio APIs, including the information about endpoints, request and response payload and parameters

## SKILLS

- Languages: Java, Python, Go, C#, Javascript, Node.js, Yaml
- Tools : Git, Jenkins, ADF Framework(Oracle), JUnits, Apache JMeter, Oracle APEX, Slack, MS Office, ShareLatex, VSCode, VSCodium, JIRA, Atlassian Confluence, IntelliJ
- Platforms : Linux, Docker, vim, Windows, MacOS

## EDUCATION

B.Tech - Computer Science and Engineering

Government Engineering College, Thrissur

📅 April 2013 – April 2017

📍 8.40 CGPA

12th class

St Aloysius HSS, Elthuruth

📅 June 2011 – June 2013

📍 97 %

10th class

Sacred Hearts Higher Secondary School Thrissur

📅 June 2005 – June 2011

📍 Full A+

## RELEVANT COURSES

- Algorithms, Operating Systems, Theory of Computation, Networks, Data Structures and Algorithms, Computer Organization

## ACADEMIC ACHIEVEMENTS

- Overall Topper in university semester exams till semester 6 - BTech in Computer Science, Calicut University
- Successfully completed BTech in Computer Science and Engineering with Honours
- Secured 2461 Rank(general) in All Kerala Entrance Examination(2013)
- 97% in Higher Secondary School(12th Class, Kerala Higher Secondary Board, 2013)
- Full A+ in 10th class, Kerala State Board

## STRENGTHS

Hard-working

Motivator & Leader

Web Applications

## LANGUAGES

English  
Malayalam



- API Definitions was company specific. This was moved to Open API Specs which is a commonly accepted standard.
- The generator was implemented to read Open API specs and generate helper libraries
- Build this product from scratch, added tests suites for integration testing and unit testing, and after the release to customers, actively took part in bug fixed, enhancements and query resolutions

### OATS library for Test Automation of RESTful Services

- Built libraries for automating tests for REST APIs
- Developed a wrapper project for testing HTTP REST calls, with help of additional helper method for payload construction and response comparison

### Share-Fi

[A closed platform for open Wi-Fi sharing]

- College Team project on developing an android application which could help your android device to connect with available home Wi Fi networks with the cost of your data available at home
- The android client helps in sharing your device possible to connect with other shared networks

### QTracker

[iOS application]

- An iOS application which implements a device tracking mechanism using Beacon Technology.
- It tracks all the testing devices used in the company along with the features like displaying the user history and beacon history,status of each device,search etc.
- The project was based on the concept of Internet of Things.

### YAXX

[Personalized image sharing app over P2P via WLAN using mobile devices]

- YAXX was designed as a background service for mobile devices which aids in real time sharing of photos.
- The android client designed as a part of the project will calculate the preferences of a user based on the degree of particulars of photos available with the users local databases
- The system works as an offline Instagram which itself understands which photos are to be shared based on personal interests

# AWARDS

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- Received Silver Spot Award from Oracle as recognition
- Secured 72 rank in coding competition - CodeXtreme conducted by IEEE
- Winner-Programming Contest, Sahrdaya College of Engineering and Technology 2015
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- Winner-Programming Contest, Jyothi College of Engineering and Technology 2014
- Winner-Programming Contest, Vidhya College of Engineering and Technology 2014
- Winner-Programming Contest , NSS College of Engineering, Palakkad 2015
- Winner-Debugging Contest , NSS College of Engineering, Palakkad 2015
- Winner-Programming Contest , RIT Govt. College of Engineering, Kottayam 2016
- Winner-Rapid Miner Programming, Debugging and Cs related events Contest, RIT Govt. College of Engineering, Kottayam 2016
- Winner-Debugging Contest , RIT Govt. College of Engineering, Kottayam 2016
- Winner-Event Mark One , Mar Baselieos College of Engineering and Technology ,Trivandrum 2014