

# Dinesh Valasala

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Master's student in Computer Science with 5 years of experience as a Software Engineer at Bank of America. Worked on building features for Bank of America's consumer banking mobile application such as Erica (BOA's chatbot). Skilled in building Android applications using Java, Kotlin using MVP and MVVM design patterns. As part of my personal projects, I worked on Web development with frameworks like NodeJS with Express framework. Experienced in different software development lifecycle methodologies such as Waterfall and Agile.

## EDUCATION

### University of Florida, Gainesville, FL

Aug 2021 - Present

Master of Science, Computer Science

- Relevant Courses – Distributed Operating Systems, Fundamentals of Machine Learning, Mobile Computing.

### Indian Institute of Technology Hyderabad, India

Aug 2012 – Jun 2016

Bachelor of Engineering, Electrical Engineering

83.7%

- Relevant Courses – Deep Learning, Image and Video processing.

## EXPERIENCE

### BA Continuum India Private Ltd

Hyderabad, India

#### Senior Software Engineer – Android Developer

July 2018 – Dec 2020

Worked as an Android Developer, responsible for implementing ideas and building features for Bank of America's consumer banking mobile application such as Dispute transactions and Erica.

- Worked on building ERICA, Bank of America's intelligent chatbot. Designed an independent rendering module for the dynamic widgets/UI components to be shown to the user by using JSONs. Used MVVM design pattern to develop this feature.
- Used Mockito to write unit test cases as part of the Test-Driven Development strategy and increased the code coverage of Erica module from 0 to 83%. Implemented flow testing using espresso and covered more than 40 screens in the application.
- Experienced in implementing third-party android libraries such as Glide, OKHTTP, Dagger, and RxJava.
- Led the innovation imperative drive for a team of 20 in the year 2019. Encouraged team to give ideas and implement them. I, myself, implemented an idea that was approved as a JDIC, BOA's internal innovation idea management system.

### BA Continuum India Private Ltd

Hyderabad, India

#### Senior Software Associate – Android Developer

July 2016 – July 2018

- Designed the BillPay enrollment feature using HttpURLConnection to make the service calls and securely enroll a user to the BillPay feature in BOA's application. Used MVP (Model View Presenter) design pattern to build this feature.
- Developed Proof of Concept for geolocation-based deals for the BOA's application using Google Maps SDK, where users can get deals available to them when they enter a certain location range.
- Used to manage all the code merge activities for the entire BOA's Android codebase. Wrote a script to automate the merge process which reduced the merge activity time by 35%.
- Analyzed and modified existing code to incorporate performance improvements such as resolving lint rules, GPU overdraw issues, memory leak issues, changes in the application/ user requirements.

## SKILLS

**Languages:** Java, Kotlin, Python, HTML, JavaScript

**Tools:** Android Studio, VSCode, PyCharm, Eclipse, Git, Jenkins, Splunk, Bitbucket, Perforce

**Technologies/ Frameworks:** MVP, MVVM, MySQL, MongoDB, Node JS, Express, Bootstrap, Junit, Mockito, Espresso

## PROJECTS

### My Diary -Web Application<HTML, CSS, JavaScript, NodeJS, MongoDB>:

- Website for the users to register and login to write and store their everyday life as a diary. Designed the front end using plain HTML, CSS, and JavaScript. Used Express framework in NodeJS for the backend and MongoDB to store the content. Used cookies to maintain the user session and pull the information when the user requests.

### Participated in ML Hackathon <Python>:

- Used Natural Language Processing to extract the features from ticket title and description. Developed a multi-class classification model to assign the tickets to the respective domains. Achieved 90% accuracy.

### Image-Based Circuit Simulation <Matlab>:

- Used various techniques like connected components algorithm on the dilated images to differentiate different parts of the circuit, like resistors, wires, capacitors, etc., and used OCR (Optical Character Recognition) to identify the numeric values to calculate the circuit properties. The project was awarded as the "most innovative" project by Dr. Sumohana S. Channappayya.

## ACHIEVEMENTS

- Received 4 Gold, 6 Silver awards for my work at BOA and got promoted twice within 5 years.
- Awarded defect champion at Bank Of America for delivering the stories without a single defect in a release.
- Part of 7-member team that headed the planning, organizing, and execution of ELAN2015, technical and cultural festival of IIT Hyderabad.