

# Aashay Maheshwarkar (A02397403)

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## EDUCATION

### Utah State University

Masters, Computer Science

Logan, Utah

September 2022- Ongoing

### National Institute of Technology Karnataka, Surathkal

B.Tech, Computer Science

Surathkal, Karnataka

August 2017- April 2021

## WORK EXPERIENCE

### SAP LABS.

Developer Associate

- Worked as a Front-end developer on the SAP Analytics Cloud (SAC) Application.
- Worked on the Theming and Accessibility aspects to make SAC High Contrast compliant.

Bangalore, Karnataka

5 July 2021 - 5 July 2022

### VISA inc.

Summer Intern

- Developed an [Android app](#) to give "mobile ATM" functionality through VISA-Direct APIs with features including QR code based payments through Zxing library, live location of users through Google Maps API.
- Proposed an USSD based idea to solve a likely post COVID economic crisis especially in the rural areas.

Virtual

26 May 2020 - 18 July 2020

### Purohitji Magic PVT. LTD.

Summer Intern

- Interned as an Android developer and worked on adding various features such as Hindi calendar, Audio player, e-commerce store and E-Book reader with multi-language support to the [Purohitji App](#) available on the Android Playstore.
- Updated Google Playstore with the latest App release after which downloads increased from 100 to 1k.

Virtual

1 June 2019 - 15 July 2019

## PROJECTS

### Study on capsule network architecture for segmentation

- Researched the existing capsule based neural network architectures and their unique features pertaining to their routing algorithms, feature extractors and network depth.
- Modified capsule based image segmentation models and elicited the results and their comparisons with state-of-the-art convolution-based image segmentation networks on Medical Image segmentation datasets as a part of my Major Project Thesis.

### BBRv1 in NDN

- [Implemented](#) the BBRv1 (Bottleneck Bandwidth and Round-trip propagation time) queueing algorithm in NDN(Named-data-Networks) and was Implemented into the NDN-chunks tool.

### Mini C Compiler

- Incrementally Added the Four phases of a compiler namely, Lexical Analysis, Syntax Analysis, Semantic Analysis, and ICG, code optimization. Yacc and Flex were used to compile and run the code.

### Music Generation Through Deep Learning

- Trained a Recurrent Neural Network(RNN) with LSTM layers on musical notes in ABC format to generate a unique set of notes. Keras was used for the LSTM Neural Network and Pandas was used for data handling. [Github link](#).

### An Android App: The Rural Traveller

- Developed an [Android app](#) to help increase travel in rural areas of India, with features to connect with a travel guide, places to stay, eat and a travel itinerary .Used Places API, Google Maps API and Firebase realtime database.

## PUBLICATIONS

- Aashay Maheshwarkar**, Animesh Kumar, Manas Gupta "**Securing Database Backups using Blockchain and Peer-to-Peer Network**" accepted in 2ND INTERNATIONAL CONFERENCE ON COMMUNICATION, COMPUTING INDUSTRY 4.0-2021 (C2I4-2021) conference proceedings in IEEE Xplore. doi: <https://doi.org/10.1109/C2I454156.2021.9689443>
- Aashay Maheshwarkar**, Animesh Kumar, Manas Gupta "**Analysis of written interactions in open-source communities using RCNN**" accepted in the 3rd IEEE International Conference on Advances in Computing, Communication Control and Networking –ICACCCN (ICAC3N-21). doi: <https://doi.org/10.1109/ICAC3N53548.2021.9725610>

## SKILLS

- Languages:** Python, Java, SQL, C, C++, XML, Octave, MATLAB, HTML, CSS, Javascript, TypeScript, jQuery, React JS, Node JS
- Tools and Technologies:** Android Studio, Firebase, Git, TensorFlow, MySQL, NS3, Flex, Yacc, Django, NDN-Sim.

## ACHIEVEMENTS AND AWARDS

- National Talent Search Examination 2015 Scholar, awarded scholarship by the Government of India till Postgraduate study.
- Secured a JEE Mains rank of **1603** out of **1.18M** aspirants.
- Secured Institute merit scholarship at National Institute of technology Karnataka, Surathkal.
- Qualified for the state level of the Regional Mathematics Olympiad (RMO) and for the final stage of Young Scientist Incentive Plan(KVPY).

## EXTRACURRICULAR ACHIEVEMENTS

- Executive Member- The Institution of Engineers, NITK Chapter(2017-2021).
- Executive Member of the Technites Committee, NITK(2018).
- Mentored students in the subject of Operating Systems at the Summer Mentorship Programme(2019), IE NITK.
- Mentored Juniors at the Mentorship Program, PRISM, NITK.
- Rated 5 stars on Hackerrank for Problem Solving profile: [aashaym1](#) .
- Participated in multiple classical orchestras as the lead Tabla player for 8 years while in school.
- Represented the House Football team as a Left Wing Back(LWB) for 6 years while in school.