

# NAGENDRA Y

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## WORK EXPERIENCE

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**VAKEELA VAAHINI**  
**Freelance Software Engineer**  
*Bilingual law magazine*

July 2021 – Current

- Built <https://vakeelavaahini.com> from scratch. Consulted with designers and lawyers to understand user needs
- Used PHP & MySQL for the backend hosted on AWS, Bootstrap & Javascript for the frontend deployed on Netlify. Used the Razorpay SDK for secure checkout for subscriptions and payments & Sendgrid for email receipts
- Created an admin dashboard for managing subscribers and products using the DataTables jquery plugin
- Launched by CM of Karnataka on August 24, 2022

**MESIBO PTE. LTD.**  
**Software Engineer**  
*mesibo is a leading real-time communication platform*

Bengaluru  
March 2019 – May 2021

- Developed a fully-featured Zoom-like video-conferencing app for web(Javascript, Angular, Bootstrap), and mobile (Android, Java) with mesibo Conferencing APIs. Worked at all stages of the application stack: designing UI, implementing app logic, and testing. Demo live at <https://mesibo.com/livedemo>
- Developed a fully featured WhatsApp like messaging app for Web using Javascript, Angular, Bootstrap and mesibo messaging APIs. Supported multi-tab sessions using service worker API
- Built a chatbot scripting framework using the V8 Javascript Engine in C++, with utilities for quick responses, timers, connecting with Dialogflow, IBM Watson, etc.
- Developed the Mesibo Python Package - Python bindings for mesibo C/C++ API using CPython.
- Wrote well-structured and developer-friendly API documentation and tutorials live on the website. Contributed to many tutorial/informative articles which were published on Medium

**TALLY SOLUTIONS PVT. LTD.**  
**Trainee Software Engineer**  
Part of the GST Functional testing team for Tally 18

Bengaluru  
July 2018 – November 2018

## NOTABLE PROJECTS

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**CROWDMETA**  
Launching shortly, <https://crowdmeta.org> aims to be the leading crowdfunding platform for artists, photographers, authors, and everything creative! Built a prototype using Bootstrap, Javascript, PHP and MySQL integrated with Razorpay

November 2021 – Current

**BRAIN TUMOR SEGMENTATION USING DEEP NEURAL NETWORKS**  
For my UG Final Year Academic project, I built and trained a 3D CNN for estimating tumor volume based on standard U-Net architecture on the BRATS-2018 Challenge dataset. Used Keras, Matplotlib, Numpy, and other Python-based tools.

Feb 2018

## EDUCATION

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**R.V COLLEGE OF ENGINEERING**  
*Bachelor of Engineering in Electronics and Communication*  
Cumulative GPA: 8.04/10

Bengaluru  
July 2018

**STJ CENTRAL SCHOOL AND COLLEGE**  
*XII, Karnataka State Board, Percentage: 95.5*  
X, CBSE, Cumulative GPA: 10/10

Davangere  
May 2014  
May 2012

## ACHIEVEMENTS & INTERESTS

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- Presented a talk on *Real-Time Machine learning using Python* at Bangalore Python Users Group
- International Fellow - 2018 at fast.ai (NLP, Image Segmentation and Detection)
- Winner-National Entrepreneurship Challenge, 2015-16, IIT Bombay.
- Podium finish at Sweden India Nobel Memorial Quiz - 2018
- RSST Award for Extraordinary Student Achievements - 2018

## SKILLSET

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**Programming Languages/Platforms:** C/C++, Python, Java, Kotlin Javascript, Pytorch, Keras, Docker, AWS  
**GitHub Profile:** <https://github.com/nagendra-y>  
**Languages Known:** English(Speak, Read & Write), Kannada(Speak, Read & Write), Hindi, Tamil, Telugu, (Basic)Japanese