

## YOGESH S IYER

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### HIGHLIGHTS

- **1.5+ years** of software development experience with strong analytical and problem-solving skills.
- Proficient in software development using **C, C++, Java and Python** programming languages along with **Tensor Flow, Keras**.
- Excellent communicator and can interact effectively with clients, engineering and management groups.

### EDUCATION

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#### UNIVERSITY OF TORONTO

*Toronto, Canada*

Master of Engineering (MEng) in Electrical and Computer | GPA 3.5/4.0

[Sep 2018-April 2020]

- **Courses:** Cloud Computing, Digital Image processing & Its applications, Seminar in Identity Privacy and Security, Project Management, International Business for Engineers, Embedded Systems (*ongoing*)
- **Emphasis:** ELITE (Entrepreneurship, Leadership, Innovation & Technology in Engineering)

#### BIRLA VISHVAKARMA MAHAVIDYALAYA (BVM)

*Gujarat, India*

Bachelor of Engineering in Electronics and Communication | GPA 9.18/10.0

[Aug 2014-Aug 2018]

- **Courses:** Computer programming and utilization, Design Engineering, Digital Electronics, Simulation & Design Tools, Analog Circuit Design, VLSI Technology, Antenna & Wave Propagation, Fundamentals of Image Processing
- **Teaching Assistant:** Evaluated and managed tutorial/lab sessions and held one-to-one office hours for doubt clarification sessions for first year students. (Analog Electronics)

### RELEVANT PROJECTS

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#### Money Planner Webapp using Amazon Web Services (AWS)

[Sep 2019-Dec 2019]

Course: Cloud Computing | Prof: Eyal De Lara | Programming done using Python (Flask), HTML, CSS

- Presented idea of a webapp for planning money expenditure that allows user to upload an image of receipt, extracting text from it and calculating the expenses category wise and put it in a pie chart.
- It has a search bar to search for specific category of receipts & face unlock for the login purposes.
- AWS services such as: Lambda, S3, Dynamo DB, Textract, Rekognition etc. has been used. ([report](#))

#### Localizing Vehicles via Semantic Segmentation

[Sep 2019-Dec 2019]

Course: Digital Image Processing | Prof. K.N. Plataniotis | Programming done using Python (Keras), MATLAB

- Presented idea of a semantic segmentation algorithm on the urban scenes, to investigate its performance on autonomous driving.
- For semantic segmentation Deep Seeded Region Growing (DSRG) technique is used which is a **Neural Network** whose objective is to classify whole image in either an object group or background. ([report](#))

#### Data Protection using Digital Watermark

[Jan 2019- Apr 2019]

Course: Seminar in Identity, Privacy and Security | Prof. K.N. Plataniotis | Programming done using MATLAB

- Presented idea of implementing the digital watermark in spatial domain to help reduce the copyright infringement. The embedded watermark can easily survive the JPEG compression and noise addition given to the image. ([report](#))

### TECHNICAL SKILLS

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**Operating Systems:** Linux, Unix, Windows, Raspbian

**Languages:** C, C++, Python, JavaScript, Verilog

**Software and Tools:** AWS (EC2, S3, Lambda, IOT, S3), TensorFlow, Keras, Proteus, MATLAB, Simulink, KEIL, Cadence Virtuoso, OrCAD

## RELEVANT EXPERIENCE

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### Electronics Technology Assistant University of Toronto, Canada

[Sept 2019- Present]

- Microcontroller programming including Raspberry Pi and Arduino
- Experience in soldering PCBs and Debugging PCB and building electronic devices.
- Technologies used: Arduino, Raspberry Pi, Proteus, Visual Studio

### Electronics Technology Assistant Code it Hacks, Toronto, Canada

[June 2019- Sep 2019]

- Tutoring children from age 5 to 12 yrs.
- Teaching them fundamentals of electronics, Microbits, Arduino programming, SCRATCH programs

### Trainee Emerson Automation Solutions, Vadodara, India

[June 2017- Aug 2017]

- Learned about the devices like orifice, turbine and ultrasonic meters used in conjunction with flow measurement of oil and natural gas.

## PUBLICATIONS

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- Automated Grocery Merchandising System, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064, Volume 7 Issue 5, May 2018, Yogesh Sivasankaran<sup>1</sup>, Ankur Varma<sup>2</sup>, Darshi Contractor<sup>3</sup> ([report](#))

## AWARDS

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- Recipient of the Shri M.D. Patel Merit Medal for securing highest marks in Electronics & Communication Engineering branch in final examination, Institute of Engineers, India (2018)
- Awarded by the BVM Central Committee for highest CGPA in 3<sup>rd</sup> year (2018)
- Awarded for obtaining Highest Grade in engineering subjects of Engineering Electro magnetics and Electronics & Communication in 3<sup>rd</sup> level (2017)
- Awarded for scoring the 2<sup>nd</sup> Highest CPI in 2<sup>nd</sup> Level (2017)
- Recipient of the Dewang Mehta IT awards for being the college topper in 5<sup>th</sup> and 8<sup>th</sup> Semester

## ADDITIONAL INFORMATION

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- PCB team lead at University of Toronto Hyper loop
- Fluent in English and Hindi.
- Excellent communication and presentation skills
- Organized and volunteered in various events.
- Eligible to work in Canada after graduation with an intention to apply for Canadian Citizenship.