

# Yogesh Chockalingam

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## EDUCATION

### UW MADISON

M.S IN COMPUTER SCIENCE

Expected Dec 2018 | Madison, WI

GPA: N/A

### PES INSTITUTE OF TECHNOLOGY

B.E IN COMPUTER SCIENCE

May 2015 | Bangalore, India

GPA: 9.21 / 10.0

## COURSEWORK

### GRADUATE

Machine Learning

Pattern Recognition

Introduction to Artificial Intelligence

### UNDERGRADUATE

Analysis and Design of Algorithms

Data Structures

Databases

Operating Systems

Cloud Computing

Big Data

## SKILLS

### PROGRAMMING

Python • Java • JavaScript • C

C# • Objective C

### DATABASES

SQL • MongoDB

### LIBRARIES AND TOOLS

OpenCV • Python scikit-learn

• Python-flask

## PUBLICATIONS

- "Driver fatigue detection system", IEEE International Conference on Signal and Image Processing, 2016.

## AWARDS

- Intuit - Star of the Quarter (2015, 2017)
- Second Runners - Harman Connected World Hackathon (2016)
- Winner - Intuit Hack-Utsav (2016, 2017)
- Second Runners - JP Morgan Code for Good hackathon (2014)
- Winner - Intuit Hackathon (2014)

## EXPERIENCE

### INTUIT | SOFTWARE ENGINEER II

Aug 2015 – Aug 2017 | Bangalore, India

- Worked on TurboTax desktop, on MacOS and Windows on key features like providing contextual tax help and reduced crashes by roughly 40%.
- Designed and launched Turbotax on the Windows App Store, using Universal Windows Platform.

### INTUIT | SOFTWARE ENGINEERING INTERN

Jan 2015 – Jul 2015 | Bangalore, India

- Import business and financial data from QuickBooks Online into TurboTax Business, thus jump starting a tax return. This helped reduce the time spent on preparing a tax return by 30 minutes.

### GE HEALTHCARE | SOFTWARE ENGINEERING INTERN

Jun 2014 – Jul 2014 | Bangalore, India

- Built a system using OpenCV to track patients in a hospital ward. The system aggregated multiple WebRTC based live video streams from the monitoring cameras, sampled frames from the video stream and applied background subtraction to track the patient. Attained an accuracy of about 63%.

## PROJECTS

### DRIVER FATIGUE DETECTION SYSTEM

Jan 2015 – Jun 2015 | PES Institute of Technology

- Developed a system using OpenCV to detect fatigue in drivers and trigger an alert. The system combined multiple methods of detection: eye tracking and blink detection, yawning detection and data from physical sensors monitoring the pulse rate and core body temperature of the driver.
- Achieved an accuracy of 80.55% with sub-second alerts being sounded through the vehicle's audio system.

### IMPORT TAX DATA FROM AN IMAGE OF W2

May 2016 – Jun 2016 | Intuit

- Enabled import of Form W2 information into TurboTax desktop, by enabling the user to snap a picture of the W2, performing OCR, and transfer of information from the phone to the desktop product. A QR code was employed for establishing the handshake and subsequent session.

### INFRA

Jan 2014 – May 2014 | PES Institute of Technology

- Built a system using web sockets and Windows batch scripting to remotely control a Windows PC from an Android app. The user can perform a wide range of actions including playing music, file operations, scheduling restarts, triggering downloads etc.

### FACEBOOK NEWSFEED ANALYSIS

Aug 2013 – Nov 2013 | PES Institute of Technology

- Developed a system using Facebook's Graph API to send automated replies to all birthday wishes on the user's timeline. Regular expressions were used to detect if a post is a birthday greeting.
- An automated reply is then generated for the matching post, thanking the corresponding friend by name. Attained an accuracy of 95%.