

Yogesh C Chockalingam

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OBJECTIVE Graduate student with professional experience and excellent ability to learn rapidly, dive deep and take ownership to deliver end to end. Seeking internship opportunities in software engineering, machine learning and computer vision roles.

EDUCATION

UW MADISON

M.S COMPUTER SCIENCE

Expected Dec 2018 | Madison, WI

GPA: N/A

PES INSTITUTE OF TECHNOLOGY

B.E COMPUTER SCIENCE

May 2015 | Bangalore, India

GPA: 9.21 / 10.0

SKILLS

PROGRAMMING

Python • Java • JavaScript • C

C# • Objective C

DATABASES

MySQL • MongoDB

LIBRARIES AND TOOLS

OpenCV • Python scikit-learn

• Python-flask • numpy • WebRTC •

Bootstrap • Git

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

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

- Delivered TurboTax desktop, on MacOS and Windows on several features including contextual tax help and reduced crashes by roughly 40%.
- Designed and implented from scratch, Turbotax on the Windows App Store, using Universal Windows Platform in 60 days.

INTUIT | SOFTWARE ENGINEERING INTERN

Jan 2015 – Jul 2015 | Bangalore, India

- Imported 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 by aggregating multiple WebRTC based live video streams 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 FORM W2

May 2016 – Jun 2016 | Intuit

- Implemented importing of form W2 information into TurboTax desktop, by enabling the user to snap a picture of the W2 and performing OCR.
- Attained an accuracy of about 70% and helped reduce data entry errors by 30% for 5 million customers.

SHOPPING ASSISTANT

May 2016 – Jun 2016 | Myntra Hackathon

- Simulated a fitting room using augmented reality by tracking the shopper's face and modelling clothing onto the torso in a scale invariant manner.

SEMANTIC TEXTUAL 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%.