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 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.
- The system 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
- Build a system for Myntra, India's largest fashion e-commerce site where a shopper could snap a picture of an item of clothing and images of similar outfits from Myntra's catalogue are obtained and modelled onto the shopper's torso, augmenting reality and thus simulating a live trial room.

SEMANTIC ANALYSIS OF THE FACEBOOK NEWSFEED
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%.