Yogesh Chockalingam

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Education

- **University of Wisconsin-Madison** — Madison, WI
  Master of Science, Computer Science; GPA: 3.76/4 — *Sep 2017 - May 2019*
- **PES Institute of Technology** — Bangalore, India
  Bachelor of Engineering, Computer Science; GPA: 9.21/10 — *Sep 2011 - May 2015*

Experience

- **Intuit** — San Diego, CA
  Software Engineering Intern — *May 2018 - Aug 2018*
  - Drove the backend design and implementation of the Employee Purchase Program to provide employees with discounted Intuit products via vouchers.
  - Designed the database schema and created tables on AWS DynamoDB to track voucher claims. Built a RESTful Java service on Spring to perform CRUD operations on the database and deployed it on AWS.
- **Intuit** — Bangalore, India
  Software Development Engineer 2 — *Aug 2015 - Aug 2017*
  - Delivered key business features on TurboTax Windows and Mac including a tax query system and a screen sharing module for connecting customers with tax professionals.
  - Designed and launched TurboTax on the Windows 10 App Store, using Universal Windows Platform with zero production issues.
  - Improved product quality by 40% by integrating an internal tool for crash reporting, triaging and analysis.
- **GE Healthcare** — Bangalore, India
  Software Intern — *Jun 2014 - Jul 2014*
  - Built a computer vision 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.

Skills

Languages: Python, SQL, Java, Objective-C, C, C#, JavaScript, HTML/CSS, PHP
Tools: AWS, Keras, TensorFlow, Scikit-Learn, Jupyter, Spring, Maven, Flask, DynamoDB, Pandas, OpenCV, Git, P4V

Projects and Publications

- **Text Synthesis from Lip Movements [Project Wiki]**
  Compared traditional computer vision techniques against neural networks for lip reading. Extracted features and built a model using optical flow, 3D convolutional layers and RNNs. Attained a BLEU score of 0.27.
- **Tag Prediction for StackOverflow Questions [GitHub]**
  Developed a multi-class, multi-label ensemble classifier with support vector machines and decision trees to predict the tags of StackOverflow questions, given the question title and body. Attained an F1 score of 0.64.
- **Embedding Database Records [GitHub]**
  Designed a scheme to embed database records and built a pipeline to perform error detection and error correction of dirty records. Obtained 95% precision in error detection and 83% accuracy in error cleaning.
- **Question Pairs on Quora [GitHub]**
  Detected pairs of questions on Quora which have the same semantics using a Siamese neural network with custom word embeddings and bidirectional LSTMs. Attained an accuracy of 68.6%.
- **Driver Fatigue Detection System [ICSIP 2016]**
  Developed a system to detect fatigue in drivers by combining eye tracking, blink detection, yawning detection, pulse rate and core body temperature of the driver. Achieved 80.55% precision and 97% recall.

Hackathons and awards

Winner: UW-Madison EnerHack (2018)
Winner: Intuit Hackathon (2016 & 2017)
Star of the Quarter: Intuit (2015 & 2017)
Second Runners: Harman World Hackathon (2016)