

Uma Subbiah

Chicago, Illinois (**Authorized to work in the US with a H-1B visa**)

LinkedIn: [linkedin.com/in/uma-subbiah1](https://www.linkedin.com/in/uma-subbiah1)

Website: uma-subbiah.github.io

Email: umasubbiah19@gmail.com

Mobile: +1 (650) 789-0842

Github: github.com/uma-subbiah

Google Scholar: bit.ly/UmaSubbiah

Education

- **University of Oxford** Oxford, UK
Master of Science in Computer Science, Distinction (in both coursework and thesis) Oct 2020 – Sep 2021
Select Coursework: Machine Learning, Adv. Machine Learning, Computational Biology, Computers in Society
 - **Amrita Vishwa Vidyapeetham** Coimbatore, India
Bachelor of Technology in Computer Science & Engineering Jul 2016 – Jun 2020
GPA: 9.91/10, 1st Class, Distinction, Gold medal for highest graduating GPA
Select Coursework: Neural Networks & Deep Learning, Machine Learning & Data Mining, Computational Intelligence
-

Experience

- **Software Engineer 1, McDonald's Corporation** Chicago, Illinois | *Sept 2022 – Present*
 - Global Digital Engineering team member, responsible for the backend RESTful API implementation of the McDonald's app for all global markets – currently on the team that handles validation, totalization, and fulfillment of orders
 - Investigation and fixes to accommodate > 10 different promotions, across various markets and countries
 - Written > 20 Postman collections that (along with GitHub actions) automate the verification of orders-related services; performed a multitude of user acceptance tests; increase code coverage with unit tests for 5 services
 - Responded to requirement changes – adding API endpoints, wrapping response types, investigating tax calculation implementation according to changes in local regulations (e.g., Italy), etc.
 - **Software Engineer, Matician, Inc.** San Francisco Bay Area, California | *Nov 2021 – Sept 2022*
 - Worked on computer vision & deep learning algorithms, as an integral member of the Perception Software Team.
 - Designed, implemented a computer vision SLAM benchmarking pipeline, using data version control & visualization tools.
 - Automated the calibration of robots, reducing the necessary human-involvement from >1.5 hours to 5 minutes per robot.
 - Achieved autonomous docking algo design with < 4cm translational & negligible rotational error (range: < 25cm of dock).
 - **Lead, Developer Student Club by Google Developers** Coimbatore, India | *Jan 2019 – Jul 2020*
 - Conducted over 7 workshops & hackathons; trained over 300 students on campus; increased student participation to 3-digit registrations. Invited (and sponsored) to the India DSC Summit by Google Developers at Goa, India
 - **Intern, IIT Madras Research Park** Chennai, India | *May 2019 – Jul 2019*
 - Artificial Intelligence: Developed a prototype for predicting the presence of chronic kidney disease inpatients, using case-based reasoning in A.I.; my work was accepted for testing and verification, after the completion of my internship.
 - **Research Intern, Leeds Beckett University** Leeds, UK | *Feb 2018 – Jul 2018*
 - Conducted research on the use of Machine Learning to predict software bugs & reduce loss incurred by software companies.
 - Achieved an F1 score = 91.5% on an ML cloud-based service, presented at a conference in Portugal and published.
 - **Student Researcher (object detection for intelligent living spaces), Smart Spaces Lab (on-campus)** Sep 2017 – Jul 2020
-

Awards, Honors & Certifications

- 1st prize for Poster, Safety Pharmacology Society's Junior Investigator Poster Contest (affltd. Uni. Of Oxford, UK) Oct 2021
 - Student Award for Abstract, Safety Pharmacology Society's 2021 Annual Meeting (affltd. Uni. Of Oxford, UK) Sep 2021
 - Google Developers Certified TensorFlow Developer & Member of the TensorFlow Certificate Network Jul 2020
 - *This exam tests knowledge of image recognition, object detection, NLP, convolutional neural networks.*
 - Graduated with the gold medal and highest GPA among 380 students in my undergrad class. Jun 2020
-

Select Projects – Please see the project section of my website (uma-subbiah.github.io/) for a complete list

- **Graduate Thesis Project**
 - Worked in the Computational Cardiovascular Science group at Oxford to develop an automated drug-induced heart abnormality classifier. Presented: (1) Safety Pharmacology Society Conference (2) Cardiac Physiome (Oct & Nov '21)
 - **Undergraduate Thesis Project:**
 - Worked on the analysis & enhancement of deep learning architecture – Published/presented findings (Feb & Sept '20)
 - **IBM's Data Science Professional Certificate - Capstone Project:**
 - Identified 3 most ideal locations to establish a hospital in London, using data collection, analytics, and machine learning.
-

Programming Skills

- **Technologies:** Machine/Deep learning, TensorFlow, PyTorch, Keras, Pandas, NumPy, Data Analysis and Visualization, SQL, Linux, Git & GitHub, .NET6.0, Postman, RESTful APIs
 - **Languages:** Java, Python, C#, C, C++
-

Publications – My research publications include 1 book chapter, 6 conference proceedings and 2 posters.

- Please see my Google Scholar profile at bit.ly/UmaSubbiah for a complete list.