

DIVYA SIVASANKARAN

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[LinkedIn](#) • [GitHub](#) • [Personal Website](#)

EXPERIENCE

SEP 2017 – PRESENT

DATA SCIENTIST, CONEX SYSTEMS

Responsibilities:

- End-to-end management and development of projects I'm responsible for.

Projects:

- Face Recognition for body-worn cameras - this is a collaborative effort with AETOS to help identify criminals from watchlists using facial recognition.
- Predictive video analytics for healthcare - this is a collaborative research effort with Tan Tock Seng Hospital to prevent falls among high-fall-risk patients using thermal cameras.

AUG 2013 – JAN 2016

RESEARCH ENGINEER, AUTODESK INC

- Research and develop POCs for 3D Reconstruction and Mesh Processing & End-to-End Software Development for product level features.
- Saved > 80% time for 3D Reconstruction, and improved quality of texture-unwrap by repurposing the segmentation algorithm for smarter data representation.

JUN 2012 – AUG 2013

SOFTWARE ENGINEER, QUANTUM INVENTIONS

- Develop features to maintain data for real-time traffic information dissemination (data & server handling).
- Reconstructed reliable traffic flow from GPS Taxi probes using routing algorithms which improved the quality of traffic data

AUG 2016 – DEC 2016

PART-TIME TEACHING ASSISTANT, NATIONAL UNIVERSITY OF SINGAPORE

Courses taught:

- NM3216 - Game design (Department of Communications & New Media)
- CS1231 - Discrete Mathematics (School of Computing)

JUN 2016 – AUG 2016

GRADUATE STUDENT RESEARCHER, NATIONAL UNIVERSITY OF SINGAPORE

- **Avatar based serious gaming for rehabilitation:** Built an android game to help motivate senior patients with frozen arm rehabilitate and also provide weekly analytics for the physician.

EDUCATION

AUG 2017

MSC COMPUTER SCIENCE, NATIONAL UNIVERSITY OF SINGAPORE

- Second Upper (Hons) Classification (CAP - 4.33)
- **Specialization:** Algorithms and Theory
- **Thesis:**
Context-aware continuous authentication using multi-modal biometrics. Built a context aware online-learning algorithm with theoretical guarantees for use in continuous authentication using Face, Voice and Gait as biometric input
- **Publication:**
Sivasankaran, D., Regab, M., Sim, T., & Zick, Y. Context-Aware Fusion for Continuous Biometric Authentication. International Conference on Biometrics (ICB), 2018.

JUN 2012

B.ENG IN COMPUTER ENGINEERING, NATIONAL UNIVERSITY OF SINGAPORE

- Second Upper (Hons) Classification (CAP - 4.0)
- **Final Year Thesis:**
in collaboration Data Storage Institute (A*Star Group) on Visual Simultaneous Localization and Mobilization (VSLAM) for mobile robots

SKILLS

- **Languages:** C/C++, Python, Ruby, MATLAB, Java, LabView, Prolog
- **Platform & Tools:** SQL, JavaScript, CSS, HTML, Android Programming, Unity 3D, ROS, CMake, GIT, Perforce
- **Libraries & Packages:** Tensorflow, OpenCV, Caffe, Scikit-Learn, Keras, Boost, TBB, PCL, Qt, ggplot

ACHIEVEMENTS

- Runner-up (2nd place) at the **Smart Living Hackathon 2018**, Voice tech today for a better future tomorrow.
- Awarded Best Data Visualization team at **FacebookX GIT Hack for a Cause 2016** (Girls in Tech).
- Winner of **Autodesk Hackathon 2015** (Generate 3D models of houses from floorplans).
- Presented at **Autodesk Technical Summit 2015** (Category: Innovation) on Real time 3D Segmentation.

REFERENCE

Dr. Terence Sim, Associate Professor & Assistant Dean of Corporate Relations, School of Computing, National University of Singapore, E: tsim@comp.nus.edu.sg, T: +65-65161180